

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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नई बिस्सी, शनिवार, जून 2, 1984 (ज्येष्ठा 12, 1906)

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NEW DELHI, SATURDAY, JUNE \$, 1984 (JYAISTHA 12, 1906)

इस भाग में भिन्न पृथ्ठ संख्या दी जाती है, जिससे कि यह अलग संस्तान के कप में रखा जा एके। (Separate paging is given to this Part in order that it may be filed as a separate compilation)

# भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस (Notifications and Notices issued by the Patent Office relating to Patents and Designs)

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Calcutta, the 2nd June 1984

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1---87GI[84

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## CORRIGENDA

(1)

In the Gazette of India, Part III, Section 2, dated the 6th August 1983 under the heading "COMPLETE SPECIFICATION ACCIPITED".

In page 501, column 2, insert Patent No. 151818 against Application No. 945|Cal|79 dated the 10th September 1979 at the right hand top corner.

(2)

In the Gazette of India, Part III, Section 2, dated the 20th August 1983 under the heading "COMPLETE SPECIFI CATION ACCEPTED".

In page 540, column 2, against No. 151868,

for Inventor VASANT VINAYAK APTE.

read Inventor VASANT VYANKATESH APTE

(3)

In the Gazette, of India, Part III, Section 2, dated the 27th August 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 561, column 1, against No. 151876 insert "Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office, Calcutta".

(4)

In the Gazette of India, Part III, Section 2. \ dated the 24th September 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 638, column 1, against No. 152002 insert "Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) The Patent Office, Calcutta".

(5)

In the Gazette of India, Part III, Section 2, dated the 15th October 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 673, column 2, against No. 152088 insert "Appropriate Office for onposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

(6)

In the Gazette of India, Part III. Section 2. dated the 5th November 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In page 716, column 1, against No. 152181 insert "Appropriate Office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch".

**(7**)

In the Gazette of India, Part III, Section 2. dated the 12th November 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED"

In page 725, column 1, against No. 152201 insert "Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta".

(8)

In the Gazette of India, Part III Section 2, dated the 19th November 1983 under the heading "COMPLETE SPECIFICATION ACCEPTED".

In pages 734 and 735, columns 2 and 1, against Nos. 152216, 152217, 152218 and 152219—

for Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

read Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

### 26th April 1984

- 273 | Cal | 84. Westinghouse Electric Corporation, Improvements in or relating to improved fuel cell Generator.
- 274 Cal 84. (1) Vsesojuzny Gosudarstvenny Institut Nauchno-Issle-Dovatelskikh I, Proektnykh Rabot Ogneaporno I Pro-myshlennosti.
  - (2) Semiluksky Ogneuporny Zavod. An apparatus for moulding products from moist bulk materials
- 275|Cal|84. NL Industries, Inc. Valve Assembly, sent and seal
- 276 Cal 84. Combustion Engineering, Inc. Pulverizing mill having pure rolling motion between the Grinding Roll and the Bowl.

## 27th April, 1984

- 277|Cal|84. Sap Industries. Improvements in or relating to Pulverised fuel bend.
- 278 Cal 84. Deutsche Thomson-Brandt Gmbh. A circuit for Television receiving sets.
- 279|Cal|84. Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut Aljuminievoi. magnievoi I Elektrodnot Pormyshlennosti. Fluidized-bed apparatus for separating fragments of Refractory lining from fired alumina.

#### 28th April, 1984

- 280 Cal84. Dr. Ashir Deb Roy. Phako Fragmenter.
- 281|Cal|84. Satake Engineering Co. Ltd. Rice Polishing Machine.
- 282 Cal 84. Stemens Aktiengesellschaft. A Stabilised Organic Polymer.
- 283|Cal|84. Krone GmbH. Plug Joint for light waves conductor.
- 284 Cal 84. Institut Elektrosvarki Imeni E.O. Patona Akademi Nauk Ukrainskoi SSR. Method of electroslag welding and flux therefor.

[24th September, 1981]

## 30th April, 1984

- 285 Cal 84. E. I. Du point De Nemours and Company. Improved process for Annealing Polyester Filaments and New products thereof.
- 286 Cal 84. M'tsur Srec Development Co. Ltd. Coal Liquefaction process Integrated with a coke production sten
- 287 Cal 84. Johnson & Johnson Baby products Company. An absorbent article such as disporable diaper, ganitary napkin, incontinent pad.

[28th July, 1981]

288 Cal 84. Trutzschler GmbH & Co. K. G. Apparatus for drawing off fibre webs or slivers form supply rollers and stroing or laying the same in cans.

### 1st May, 1984

- 289 Cal 84. Kraftwerk Union Aktiengesellschaft. Power station including an integrated coal Gasification Plant.
- 290 Cal 84. Manville Service Corporation High temperature and Alkali-Resistant refractory fiber for reinforcing cementitious products and those reinforced products.

291 | Cal | 84. Aluminium Pechiney. Dispositif clos a fluidigation Potentielle pour Le convoyage houzontal En lit dense De materiaux Pulverulents. [Addition to No. 1287 | Cal | 83].

### 2nd May, 1984

- 292 Cal 84. Indian Exposives Limited. Improved Cap Detonating cord sensitive slurried Explosive Compositions.
- 293 | Cal | 84. Polska Akademia Nauk-Centrum Badan Molekularnych i Makromolekularnych. A method of producing Amides of S-[Dialkoxythiophosphoryl] Thioglycolic Acid.
- 294|Cal|84. Phillip Lincoln Mayall and Edward Maxwell Whitten. Marine Observatory Craft.
- 295 Cal 84. Kraftwerk Union Akiengesellschaft. Combined Gas Turbine Steam turbine plant having a coal gasification Plant connected upstream thereof.
- APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

#### 9th April, 1984

- 246 Mas 84. Nitto Boseki Co. Ltd. and Tokuriki Honten Co. Ltd., Fiber forming bushing producing method.
- 247|Mas|84. Sinto Kogio Ltd., Composite and dutable forming model with permeability.

### 10th April, 1984

- 248 Mas 84. Monsanto Company. Conjugate filaments and process for producing same.
- 249 Mas 84. Monsanto Company. Deep dyeing helically crimped yarn process.
- 250 Mas 84. Monsanto Company. Easily splittable selftexturing conjugate yarn.
- 251|Mas|84. Mitsubishi Denki Kabushiki Kaisha. Static type switch disconnect circuit.
- 252 Mas 84. Tecsport Limited. Coating compositions. (April 11, 1983).
- 253 Mas 84. BBC Brown, Boveri & Company Limited. Switching amplifier for digital power amplification.
- 254 Mas 84. Raychem Corporation. Connectors for power distribution cables.

## 11th April, 1984

- 255 Mas 84. SKF Steel Engineering Aktiebolag. Method of manufacturing stainless steel.
- 256 Mas 84. SKF Steel Engineering Aktiebolas. Method and apparatus for manufacturing sponge iron.
- 257 Mas 84. Ciba-Geigy AG. Process for dyeing silk or fibre blends containing silk.

## . 12th April, 1984

- 258 Mas 84. L. K. Raj. Double filament electric lamp.
- 259 Mas 84, P. Kandaswami. A process for preparation of quick cooking rice.
- 260 Mas 84. Lucas Industries Public Limited Company. Corresion resistant steel components and method of manufacture thereof (April 14, 1983)
- 261 Mas 84. Ronald L. Abbott. Apparatus for producing and dispensing cold products. (August 26, 1980).
- 262 Mas 84, Kabushiki Kaisha Iseki Kaihatsu Koki. Method and apparatus for thrusting a shield for use in tunneling.
- 263 Maa 84. Firma Theodor Hymmen KG. Device for applying surface pressure to advancing workpieces.

264 Mas 84. Continental Gummi-Works Aktiengesellschaft.
Pneumatic vehicle tire.

#### 16th April, 1984

- 265 Mas 84 L. Venketaraman. Reducing the Tractive effort of trains by reducing the frictional component through special arrangement of plat springs on each sleeper.
- 266 Mas 84 Kanegafuchi Kagaku Kogyo Kabushiki Kaicha, An Electrolytic cell.
- 267 Mas 84 Basf Aktiengesellschaft. Aerial spraying apparatus

#### 17th April, 1984

- 268 Mas 84. Hocchst Aktiengesellschaft. Process for making phosphorous pentoxide and optionally phosphorous acid with utilization of the reaction heat.
- 269 Mas 84 Hydexco Societe anonyme. Tube joint comprising means for anchoring a sleeve at its end.
- 270 Mas 84 Compagine Electro-Mecanique & Fives-Cail Babcock. A method for the production of cement clinker with percalcination.

### 18th April, 1984

- 271|Mas|84 Dayco Corporation. Polymeric product having a fabric layer means and method of making the same.
- 272 Mas 84 Beloit Walmsley Limited. Method and apparatus for deinking. (April 19, 1983).

## 19th April, 1984

- 273 Mas 84 B. V. Patankar. Improvements in or relating to the method of manufacturing of electric storage cell or battery grid and moulds.
- 274 Mas 84 Metal Bov p.l.c., Dimensionally stable thermoplastic tubular articles. (April 22, 1983).
- 275 Mas 84 Wavin B. V. Perforated plastic pipe and punch for performing perforations. (September 14, 1983).
- 276 Mas 84 Speed Up Holdings Limited. Elevating apparatus. (April 19, 1983).
- 277 Mas 84 Selen'a, Industric Elettroniche Associate, S.p.A. Adaptive MTD digital processor for surveillance radar with a bank of doppler filters and system of thresholds both selectable and dependent on the interference.

## 21st April, 1984

- 278 Mas 84. Gentech Australia Limited. Preparation of plasmid DNA and products thereof. (April 21, 1983).
- 279 Mas 84 Institut Francais Du Petrole. A modular system for the offshore production, storage and loading of hydrocarbons.
- 280 Mas. 84 Ciba-Geigy AG. Process for dycing silk or silk-containing fibre blends.
- 281 Mas 84 BBC Brown, Boveri & Company Limited. Centrifugal lubricating oil pump of an exhaust gasturbocharger.
- 282 Mas 84 BBC Brown, Boveri & Company Limited, Selfpriming centrifugal lubricating oil pump of an exhaust gas turbocharger.
- 283 Mas 84 Enichimica Secondaria Sp.A. Process for preparing substituted 2, 3-Dihydrosenzofuran and means adapted therefor.
- 284 Mas 84 Enichimica Secondaria S.p.A. Process for the Preparation of S 2 3-Bihydro-2, 2-Dimethyl-7-Benzofuranol

#### ALTERATION OF DATE

153114. (829|Cal|82). Ante dated to 19th July, 1979.

### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within tour months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS, 66D<sub>10</sub>

153087.

Int. Cl. H 01 k 1/00.

METHOD OF APPLYING A HEAT MIRROR TO AN ENVELOPE FOR INCANDESCENT LAMPS AND INCANDESCENT LAMPS COMPRISING SAID ENVELOPE.

Applicants: WESTINGHOUSH ELECTRIC CORPORA-TION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor: BULENT ERTURK YOLDAS.

Application No. 1122 Cal 80 filed October 1, 1980,

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutto.

### 7 Claims

A method of applying a heat mirror which is transmissive for visible radiations and reflective for infrared radiations to the interior surface of a regularly conformed hollow thin-walled vitreous light-transmitting member intended for use as an envelope for electric incandescent lamps, which method comprises:

(a) applying to the interior surface of said envelope, to a substantially uniform predetermined thickness, a clear solution having contained therein partially hydrolyzed metallic alkoxide which in the metallic alkoxide form prior to hydrolyzation is expressed as M(OR), wherein M at least substantially comprises titanium, R is alkyl with from 1 to 6 carbon atoms, and n is the valence of M; total reacted and unreacted water in said solution being present in amount of from 0.6 mole to 8 moles per mole of said metallic alkoxide; the solution solvent being liquid aliphatic alcohol present in amount to provide a solution solids content, expressed as equivalent metallic oxide, of from 0.1% to 3% by weight,

and as an optional constituent, said solution is acidified with at least one of hydrochloric, nitric and perchloric acid in amount of up to about 0.3 mole per mole of said metallic alkoxide;

- (b) heating said envelope and first applied solution to a temperature of from 300°C to 600°C but not exceeding the strain point of said envelope for a sufficient period of time to convert said applied clear solution to an adherent thin continuous metallic oxide layer;
- (c) applying over said first applied metallic oxide layer a thin continuous silver layer of predetermined thickness sufficient to be substantially transmissive for visible radiations and substantially reflective for infrared radiations;
- (d) applying over the applied silver layer to a thin substantially uniform predetermined thickness a second clear solution as used to apply said first-applied metallic oxide layer, and
- (e) heating said envelope and applied second clear solution to a temperature of from 300°C to 425°C under conditions which are non-reactive for silver for sufficient-period of time to convert said second applied clear solution to an alterent clear metallic oxide layer.

Compl. specn. 24 pages. Drgs. 4 sheets.

CLASS: 123.

153088.

Int, Cl. C05 b 17/00; C05 c 9/00; C05 g 1/00.

PROCESS FOR THE MANUFACTURE OF NITRO PHOSPHATE FERTILISERS FROM UREA NITRATE AND ROCK PHOSPHATE.

Applicants: PROJECTS & DEVELOPMENT INDIA I IMITED FORMERLY KNOWN AS THE FERTILISER (PLANNING & DEVELOPMENT) INDIA LTD.. C.I.F.T. BUILDINGS, P.O. SINDRI, PIN 828122, DIST. DHANBAD, BIHAR, INDIA.

Inventors: 1. SAUKHI RAM UPADHYAY 2. AMIYA KUMAR SANTIKARI 3. KESHTO CHANDRA BANERII.

Application No. 1241 Cal 80 filed November 1, 1980

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 7 Claims

A process for the manufacture of improved nitro-phosphate fertilizers, comprising interacting in solid state uren nitrate and rock phosphates characterised by the improvement that rock phosphate in the form of coarse grains passing through 16 mesh B.S.S, are subjected to grinding in presence of urea nitrate flakes to obtain a resulting powder having water soluble portion of phosphate (expressed as  $P_2O_6$ ) of at least 90% which is then, if desired, thermally cured and/or granulated for obtaining still better quality product.

Compl. Speen, 12 pages.

Drg, Nil.

CLASS: 98F.

153089.

Int. Cl. F16 L 59|00.

AN INTERLOCKING, TWO-SEGMENT INSULATOR FOR USE IN COMBINATION WITH AT LEAST ONE TRUNCATED TRIANGULAR PIPE AND COMBINATIONS OF THE INSULATOR AND THE TRUNCATED TRIANGULAR PIPE.

Applicants & Inventor: FRANK CAMPBELL, JR., OF 2274 BROADLAWN, HOUSTON, TEXAS 77058, UNITED STATES OF AMERICA.

Application No. 1212[Cal]80 filed October 24, 1980.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims.

An interlocking, two segment insulator for use in combination with at least one truncated triangular pipe having a base member, a pair of converging side member terminating in an apex member, said apex member optionally having a pair of shoulders projecting outwardly therefrom, each shoulder having a lower lip substantially mesaligned from the lower lip of one shoulder around the perimeter of the base and side members, said blanket terminating in proximity of the lower lip of the other shoulder, said insulator adapted to confromingly surround the perimeter of the pipe's and/or blanket and comprising a pair of segments, each of said segment having a primary member, a body member extending longitudinally from the primary member, a pair of arms extending longitudinally from the primary member less than the body member, the arms located circumferentially on either side of the body member and spaced apart from the body member by a pair of corresponding recesses, said arms themselves spaced apart by the void whereby as the segments, when properly aligned around the pipe and asially urged together, the void of each segment receives the body of the other segment and each pair of recesses receives the corresponding arms of the other segment thereby forming a two-segment insulator which is maintained in place around the pipe's andlor any blanket surrounding the pipe's without any other support means.

Compl. Specn. 17 pages.

Drgs. 2 Sheets.

CLASS: 62H.

153090.

Int. Cl. F26 b 7 00.

PROCESS AND APPARATUS FOR DRYING BROWN COALS.

Applicants: VOEST-ALPINE AKTIENGESELL.SCHA'T, OF A-1011 VIENNA, FRIFDRICHSTRASSE 4, AUSTRIA.

Inventor: FRANZ MAYER.

Application No. 1318/Cal/80 filed November 28, 1980.

Appropriate office for opposition proceedings (Rule 4-Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

Process for drying brown coal, in which the pre-heated brown coal is preferably continuously, passed through at least one drying stage within which the brown coal is subjected to the action of saturated steam at a pressure exceeding atmospheric pressure and at elevated temperature, characterized in that pre-heating of the brown coal is effected by subjecting the said brown coal to steam and the condensate formed is removed, optionally via a filter, as waste material, prior to introducing the brown coal into the drying stage operated with saturated steam.

Compl. Specn. 7 pages.

Drgs. 1 Sheet.

CLASS, 40F

153091.

Int. Cl. B 28 b 11[04

A PROCESS FOR PRODUCING AN ADHERENT LAYER OF ELECTROLESS METAL ON A GLASS OR CERAMIC BODIES WHEN COATED BY SAID PROCESS.

Applicants: SES, INCORPORATED, OF ONE TRALEE INDUSTRIAL PARK, NEW YORK, DELAWARE 19711, U.S.A.

Inventor: ANTHONY FRANCIS ARNOLD.

Application No., 6 Cal 81 Filed January 3, 1981.,

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

A process for producing an adherent layer of electroless metal on a glass or ceramic substrate which comprises:

- (a) applying to the substrate at least one coat of an alkali metal silicate solution containing dissolved therein an amount of at least one metal salt as hereinbefore described;
- (b) drying the costed substrate;
- (c) heating the coated substrate at a temperature ranging between 150°C to 500°C; and
- (d) electrolessly plating the resultant silicate coated substrate using a known electroless plating bath having a pH of less than 10.5.

Compl. specn. 17 pages, Drgs. Nil.

CLASS: 126C

153092,

Int. Cl. G 01 r 5|00

IMPROVEMENTS IN MOVING COIL METERS.

Applicants: VDO ADOLF SCHINDLING AG, OF GRAFSTRASSE 103, FRANKFURT MAIN, WEST GERMANY.

Inventors: 1. HANS-GEORG FLACH 2. BERNHARD STIER.

Application No. 21|Cal|81 filed January 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 5 Claims.

A moving coil meter comprising: a pole ring 2 having a projection 3, a pole plate 1, a permanent bagnet 4, arranged between the projections and the pole plate 1, a moving coil 7 linked with a pole ring 2, a shaft carrying the coil, characterized in that a first bearing bush 16 concentric with the pole ring 2 is fitted in the pole plate 1, and a second bearing bush 18 concentric with the pole ring 2, is arranged in a holder 19 secured to the pole plate, the shaft carrying the moving coil 7 being rotatable in the bearing bushes 16 and 18 and fixing means for fixing relative positions of the pole ring 2, said fixing means comprising a bearing eyelet and a bearing pin secured to the second bearing bush 18 for insertion in the bearing cyclet and the holder 19 is in the form of a U-shaped bracket, the ends of which carry a ring which is secured to the pole plate.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS. 67A

153093.

Int. Cl. G 08 b 3[10]

AN ALARM DEVICE FOR DETECTING AN UNAUTHORIZED INTRUSION INTO A VEHICLE AND DETERMINING THE LOCATION OF THE VEHICLE.

Applicants: JOHN WELSH, OF 1136 LINMAR DRIVE, NORTH CANTON, SUMMIT COUNTY OHIO 44720, U.S.A.

Inventor: 1. JOHN DECATUR WILLIAMSON

Application No. 24|Cal|81 filed January 9, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

### 6 Claims.

An alarm device for detecting an unauthorized intrusion in to a vehicle and determining the location of the vehicle, comprising:

a vehicle alarm installed on the vehicle, for generating a radio frequency alarm signal upon the unauthorised intrusion into the vehicle, said radio frequency alarm signal being at a distress frequency in the citizen band frequency spectrum and being modulated at a low frequency; and

a plurality of citizen band spectrum radio receivers tunable to said distress frequency in the citizen band frequency spectrum said modulation of said radio frequency afarm signal producing a distinct and recognizable audio pattern detectable by said receivers over audio speech modulated signals having substantially greater field strength.

Compl. specn. 18 pages. Drgs. 1 sheet.

CLASS: 187D, & 4.

153094.

Int. Cl. H 04 m 19[00,

ARRANGEMENT FOR SUPPLYING POWER TO A SUBSCRIBER'S DEVICE.

Applicants: LICENTIA PATENT-VERWALTUNGS G. M. B. H. OF 6000 FRANKFURT AM MAIN, THEODORSTERN-KAI 1, FEDERAL REPUBLIC OF GERMANY.

Inventors: 1. GUNTER WOLFGANG RUFF. 2. HARMUT SCHEFFLER.

Application No. 157/Cal/81 filed February 11, 1981,

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims.

Arrangement being a device for supplying power to a subscriber device connected to a telephone exchange by means of a double lead from the exchange battery, with the supply circuit being closed by means of operation of a switching means in the subscriber's device in case of connection or an outgoing call, characterized by that between double lead (DL) and exchanges battery (UB), on the one hand, and between double lead (DL) and subscriber device (T), on the other hand, there is introduced from the exchange-or subscriber side respectively a switching device, which responds to an exceeding or falling below current—or voltage thresholds, and that the double lead (DL) can be switched off the exchange battery (UB) or can be switched over to other potentials.

Compl. speen. 15 pages. Drgs. 2 sheets.

CLASS, 9E

153095.

Int. Cl. C 01 b 33|00.

AN IMPROVED PROCESS FOR THE PRODUCTION OF SILLICON-CONTAINING AND CARBON-CONTAINING RAW MATERIAL MOULDINGS, AND THE USE OF SUCH MOULDINGS.

Applicants: COC-LUXEMBOURG S. A., OF 3-5 PLACE WINSTON CHURCHILL L-LUXEMBOURG,

Inventor: 1. GERT-WILHELM TASK.

Application No. 266 Cal 81 filed March 11, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

## 4 Claims.

An improved process for the production of silicon-containing and carbon-containing row material mouldings e.g. in the form of briquettes for the production in an electric furnace of silicon or silicon alloys, more particularly terrosilicon alloys, which comprises mixing a flue-grained silicon carrier

containing material such as herein described with fine-grained coal and subjecting the mixture to briquetting, characterized by the improvement that 60 to 70% by weight of the fine-grained silicon containing material is mixed with 30 to 40% by weight of coal and the mixture is subjected particularly to hot moulding in suitable moulds, in the absence of any binder at temperatures in the range of 350 to 550°C. to obtain the required briquettes.

Compl. speen, 6 pages. Drgs. Nil,

CLASS. 63A2 & B

153096.

Int. Cl. H 02 K, 3/00, 17/00.

ROTATING ELECTRICAL MACHINE.

Applicants and Inventors: 1. STEFAN KUPISIEWICZ, OF 55, RUE BOIS D' EVEGNEE, 4634 SOUMAGNE BELGIUM; AND 2. JACQUES JEAN SCHOEBRECHTS, OF 61, CHAUSSEE DE WEGIMONT, 4634 SOUMAGNE, BELGIUM.

Application No. 400 Cal 81 filed April 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims.

A rotating electrical machine of the type comprising a stationary portion and a moving portion coxial therewith, the stationary portion carrying a first and a second windings, while the moving portion has a third winding, the first and second windings having pole pitches even multiple or submultiple of each other and a mutual zero inductance, the third winding being alone and closed on itself, the arrangement being such that the first winding may generate a filed inducing currents into the third winding, said currents generating an inducing field in relative rotation with respect to the moving portion, having the same pole pitch as the second winding and magnetically interacting with the latter, characterized in that said third winding consists of a number of bar sets each of which comprises two inter-connected bars, the said number of bar sets being either equal to the number of pole pairs of the stator winding having the largest pole pitch in the case of a one-phase rotor, or equal to three times said number of pole pairs in the case of a three-phase rotor.

Compl. specii. 26 pages. Drgs. 3 sheets.

CLASS, 129%

153097.

Int. Cl. B 23 b 29,00.

CUTTING TOOL.

Applicants: SANTRADE LIMITED OF P.O. BOX , 321 CH-6002 LUZERN, SWITZERLAND.

Inventor: 1. ERIK INGVAR HELLSTROM.

Application No. 1244 | Cal | 81 filed November 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 8 Claims.

Cutting tool comprising a cutting insert holder and a cutting insert which is provided with a hole extending through the insert and which is arranged to rest against a base surface and a side support in a cutting insert receiving site in the cutting insert holder, a locking screw threaded into a bore in the holder being positioned in the cutting insert hole and the cutting insert hole having a cross section, the size of which decreases in direction towards the base surface characterized in that the end part of the locking screw, which end part is positioned in the cutting insert hole, is excentrical in relation to the axis of the locking screw and has a cross section deviating from that of the cutting insert hole such that when the locking crew is threaded in the bore in the holder it can be turned to a position, where the end part only abuts the wall of the hole of the cutting insert at one contact point, the largest cross section of the excentrical end part

being less than the smallest cross section of the cutting insert hole, whereby losening of the screw about half a revolution makes the detachment of the cutting insert form the insert receiving site possible.

Compl. speci 10 pages. Drgs. 1 sheet,

CLASS: 32F2(a) & 55D...

153098.

Int. Cl. A0ln 9|20 & C07c 125|04,

"A PROCESS FOR THE MANUFACTURE OF HERBICIDALLY ACTIVE DIURETHANES."

Applicants: SCHERING AKTIENGESELLSCHAFT, A BODY CORPORATE ORGANIZED ACCORDING TO THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY, OF BERLIN AND BERGKAMAN, FEDERAL REPUBLIC OF GERMANY.

Inventor: FRIEDRICH ARNDT AND GFRHARD BOROSCHEWSKI.

Application for patent No. 603 DEL 79 filed on 24th August, 1979.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office Branch, New Delhi-11000%.

#### 3 Claims.

A process for the manufacture of a diarethane of the general formula I

- $R_1$  represents a hydrogen atom or a  $C_1 C_4$ —alkyl or  $C_2 C_4$ —alkenyl group,
- R<sub>2</sub> represents a phenyl, methylphenyl methoxyphenyl, chlorophenyl, dichlorophenyl, cyclohexyl, benxyl or phenylethyl group.
- R<sub>3</sub> represents a  $C_1-C_4=alkyl$ ,  $C_2-C_4-alkynyl$ ,  $C_2-C_4-alkynyl$ , chloro- $C_1-C_4-alkyl$ , chloro- $C_2-C_4-alkynyl$  group, and

X represents an oxygen sulphur atom wherein a compound of the general formula H

in which  $R_0$  and X have the meanings given above, is reacted in the presence of an acid acceptor such as herein described with an amine of the general formula  $\mathfrak{M}$ 

in which  $R_1$  and  $R_2$  have the meanings given above the reaction being carried out at a temperature within the range of from 0 to  $100^{\circ}$ C.

Compl. Specn, 33 pages.

Drgs. 1 Sheet.

CLASS: 32F<sub>2</sub>(d).
Int. Cl. C07d 57|00.

153099.

"A PROCESS FOR PREPARING 9-(HYDROXYALKYL) PURINES".

Applicant: NEWPORT PHARMACEUTICALS INTERNATIONAL, INC., A CORPORATION OF THE STATE OF CALIFORNIA, U.S.A. OF 1590 MONROVIA BOULEVARD, NEWPORT BEACH, CALIFORNIA, U.S.A. AND SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH A CORPORATION OF THE STATE OF NEW YORK, U.S.A. OF 1275 YORK AVENUE, NEW YORK, NEW YORK, U.S.A.

Inventors: LIONEL NORTON SIMON, AND JOHN WINTHROP HADDEN.

Application for Patent No. 618|DEL|79 filed on 31st August, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 27 Claims.

A process of preparing 9-(hydroxyalkyl) purines of the formula 1

where X is OH, NH<sub>2</sub>, SH, OR or SR (where R is alkyl of 1 to 4 carbon atoms or benzyl),  $R^1$  is H or alkyl of 1 to 8

carbon atoms,  $\mathbb{R}^2$  is H or methyl. Y is the salt of an amino of the formula H

where R\* and R\* are lower alkyl, n is an integer from 2 to 4 with p-acetaidobenzoic acid and where z is a number from 1 to 10 comprising reacting a compound of the formula IV

wherein X, R<sup>1</sup> and R<sup>2</sup> have the meanings given above with 1 to 10 moles of the salt Y.

Compl. Specn, 79 pages.

Drgs. 9 Sheets.

CLASS: 128 G & 87A.

153100.

Int. Cl.: A61h 1]00.

"APPARATUS FOR PHYSICAL CULTURE AND PHY-SIOTHERAPY".

Applicant: STEPHAN IONEL BAROI, OF 8 AVENUE DE MIREMONT, 1206 GENEVA, SWITZERLAND, A RUMANIAN CITIZEN.

Inventor: STEPHAN IONEL BAROI.

Application for patent No. 623 Del 79 filed on 4th September, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 13 Claims.

Apparatus for physical culture and physiotherapy comprising at least two hollow bodies, each having a filling opening sealed by a plug and two coupling means, characterised in that it comprises at least two interchangeable connecting devices, each having at least one coupling means which cooperates with the coupling means of one of the hollow bodies, and in that a first connecting device has a plurality of rectilinear elements, each having a coupling means at each of its ends and which cooperates with the corresponding coupling means of one of the hollow bodies or one adjacent rectilinear element, and in that a second connecting device is constituted by two intermediate members, each having a coupling means which cooperates with the corresponding coupling means of one of the hollow bodies and connected by a regulatable belt.

Compl. Speen. 11 pages,

Drgs. 5 sheets.

CLASS: 98I.

153101.

Int, Cl. F24j 3[02,

"SOLAR LINERGY COLLECTOR CONSTRUCTION"

Applicant: CONSUNTRATOR, INC., A CORPORATION ORGANISED UNDER THE COMMONWEALTH OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF P.O. BOX 483, VALLEY FORGE, PENNSYLVANIA 19481, UNITED STATES OF AMERICA.

Inventors: ALEX JOHN PAVLAK, PAUL MARTIN L'ESPERANCE & JOSEPH FRANK CATELLI.

Application for Patent No. 630|Del|79 filed on 7th September, 1979.

Appropriate Office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 20 Claims.

A solar energy collector comprising a skeleton framework, an elongated semi-tubular reflector means mounted on said framework, said means comprising reflective sheet elements forming two longitudinal sidewalls defining between them an aperture, said walls converging toward one another with a curvature increasing with the distance from the outer free edge portions and a longitudinal absorber element disposed within the base of said reflector to receive the solar energy entering said aperture, said reflective sheet elements being slidable in a direction extending from said aperture toward said base.

Compl. Specn. 23 pages.

Drgs. 5 Sheets.

CLASS: 72 B.

153102.

Int. Cl. C06b 9 00.

"PROCESS FOR PREPARING LOW VELOCITY OF DE-TONATION (VOD) SENSITIVE SHEET EXPLOSIVE TO BE USED FOR CLADDING OF METAL PLATE".

Applicant: CHIEF CONTROLLER, RESEARCH AND DEVELOPMENT. MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA) AN INDIAN NATIONAL.

Inventors: SISIR KUMAR SINHA, DHARAM DAS GARG AND BHANUDAS TOTARAM PATIL.

Application for Patent No. 631 Del 79 filed on 7th September, 1979.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 3 Claims.

Process for preparing low velocity of Detonation (VOD) sensitive sheet explosive to be used for cladding of metal plate combinations like stainless steel to stainless steel and mild steel to mild steel which comprises:

- (i) dissolving nenta Prythritols Tetra Nitrate (PETN) in acctone and filtering through cotton wool to remove suspended foreign matters followed by adding the obtained filtrate to water for precipitating the obtained PETN having a particle size of less than 53 tt;
- (ii) Preparing a typical short explosive composition in form of dough comprising:

PETN---35.0 + 0.25%

(Particle size less than 53 u-300 BSS)

KNO\* —55 0  $\pm$  0.25%

(Particle size 53-63-240) + 300 BSS)

Crepe Rubber — 10.0 ± 0.25%

Zinc Dithio Carbumate — 0.01%

Zinc Isopropyl Xanthate — 0.01%

Curing Agent.

(iii) transferring the dough to a polished metal plate and rolling into a thick sheet by wooden rolling pin;

- (iv) Curing the obtained sheets at room temperature;
- (v) drying the cured sheets.
- (vi) cutting the obtained sheets into a convement size and leaching in water to remove KNOa completely, and
  - (vii) drying the leached sheets.

Compl. Specn. 8 pags.

CLASS: 57D & 33D.

153103

Int. Class: B22d 35|00, 37|00,

"AN APPARATUS FOR CONTROLLING THE FLOW OF LIQUID METAL FROM THE POUR OPFNING OF A TEEMING VESSEL".

Applicant: USS ENGINEERS AND CONSULTANTS, INC., A CORPORATION OF THE STATE OF DELAWARE, U.S.A., DOING BUSINESS AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, U.S.A.

Inventors: FARI, PAGE SHAPLAND & PATRICK DANA KING.

Application for Potent No. 655|Del|79 filed on 17th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 5

#### 6 Claims.

AN apparatus for controlling the flow of liquid metal from the pour opening of a teeming vessel, comprising a gate valve including a gate element which comprises a generally rectargular refractory body having a first axis and a second axis transverse thereto, and an opening through the body which defines a metal flow orifice disposed on the second axis and in offset relation to said first axis by a distance greater than the radius of said orifice, first displacing means for moving the gate in the direction of said first axis to a position underlying the pour opening for aligning said orifice with the pour opening in the direction of the second axis, and second displacement means for adjusting the gate in the direction of the second axis to vary the flow from the teeming vessel.

Compl. Specn. 27 pages.

Drgs, 7 Sheets

CLASS: 64Ba.

153104

Int. Cl H01h 1/12.

"ELECTRICAL CONTACT RETENTION BUSHING AND METHOD OF MAKING".

Applicant: THE BENDIX CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE AND HAVING AN OFFICE AT EXECUTIVE OFFICES. BENDIX CENTRE, SOUTHFIELD, MICHIGEN 48076, UNITED STATES OF AMERICA.

Inventors .: CLIFFORD ROBERT WALDRON AND HERBERT KURT UHLIG.

Application for Patent No. 679[DFI]79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Potent Office Branch, New Delhi-110005.

#### 7 Claims.

A method of making a bushing for retaining an electrical contact within an electrical connector, characterized in that it comprises the following steps:

Stomping from flat stock a predetermined shape having an clongated base portion and a plurality of elongated members extending forwardly from the base, each of said members baving laterally-extending projections located informediate their length;

forming the base portion into a three-dimensional shape having two laterally extending shoulders;

forming the projections out of the plane of the members by bending the projections to a position extending transversely to the members to form retention times adapted to engage a contact: and

forming the entire retention bushing into a ring-like shape with the tines extending inwardly, the ends of the base portion meeting at a seam and the forwardly extending members each being shaped into an arcuate cross-section disposed about the ring portion to provide symmetry about the central axis of the ring, whereby a stamped and formed retention bushing having inwardly extending tines for releasably retaining a contact is made.

Compl. Speen. 11 pages

Drgs. 4 Sheets

CLASS: 64B<sub>1</sub>.

153105.

Int. Cl. H01h 1|12.

"ELFCTRICAL CONNECTOR ASSEMBLY".

Applicant: THE BENDIX CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE AND HAVING AN OFFICE AT EXECUTIVE OFFICES, BENDIX CENTER, SOUTHFIELD, MICHIGAN 48076, UNITED STATES OF AMERICA.

Inventors: PAUL DOUGLAS NILES, RICHARD WILLIAM NORMANN AND WILLIAM PRENDERGAST WHALLON JR.

Application for Patent No. 682 DEL 79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims.

An electrical connector assembly for connecting a first electrical conductor in a predermined electrical circuit relationship with a second electrical conductor, characterized in that it comprises: a first assembly having a front mating surface and a rear surface, said first assembly including: a first housing having a first passage therethrough from the rear surface to the front mating surface; a first contact body mounted within said first housing passage, said body having a socket in a forward end and a rear end adapted for receiving the first electrical conductor; a plurality of axially-aligned wires, each having acutely angled forward end surfaces, the rear of said wires being mounted in the socket in the forward rear of said wires being mounted in the socket in the forward end of said first contact body, with the forward end of said plurality of wires extending forwardly beyond the end of said contact body; and a first sleeve mounted to said first contact body and extending forwardly of said first contact body and around and forwardly of said plurality of wires for protecting the wires from external forces; and a second assembly having a second front mating surface for moting with the front mating surface of the first assembly, said second assembly including: a second housing having a second housing passage therethrough from a second front mating surface to a second rear surface; a second contact body mounted within said second housing passage, said second contact body mounted within said second housing passage, said second contact hody having a socket in a forward end and a tear end adapted for receiving the second electrical conductor; an other plurality of axially-aligned wires, each having a forward angled end surface and a rear end mounted within the specker of said second contact body, with each other end of angle of said other plurality of wires extending heaven of each of said other plurality of wires extending beyond the end of said second contact body; and a second sleeve mounted to said second contact body and extending forwardly from said second contact body and around and forwardly of said other plurality of wires, with said second sleeve having a cross-section smaller than the first sleeve and adapted to be insertable into said first sleeve upon mating of said first and second assemblies, whereby, when the first and second assemblies are mated, the second sleeve fits within the first sleeve with the plurality of wires from said first and mated in electrical circuit relationship second assemblies within said in affitting sleeves and said first and second elec-trical conductors are thereby joined in a predetermined electrical circuit relationship,

Compl. Specn. 10 pages.

Drgs, 2 Sheets.

CLASS: 64B<sub>1</sub>.

153106.

Int. Cl. H05k 1 04.

"CIRCUIT BOARD".

Applicant: THE BENDIX CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE AND HAVING AN OFFICE AT EXECUTIVE OFFICES, BENDIX CENTER, SOUTHFIELD, MICHIGAN 48076, UNITED STATES OF AMERICA.

Inventor: RICHARD WILLIAM NORMANN.

Application for Patent No. 683|DEL|79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Brauch, New Delhi-110005.

#### 3 Claims.

A circuit board comprising: a flat sheet of electrically insulating material having an electrical current path disposed on the sheet, an electrical element mounted on the sheet and electrically connected to the current path and a hole extending through the sheet; and means for providing an off-board electrical connection to the electrical element, said means comprising: an electrical contact comprising an elongated body having a forward mating end and a rear mounting end, a plurality of straight axially aligned conducting wires housed within the body, said mounting and having a conductive rounded end portion, said end portion being inserted into the hole, each of said conducting wires having a rear wire end secured to said rounded end portion and a forward wire end spaced inwardly from the forward mating end, said forward mating end being telescopically interfittable with a complementary forward mating portion of another contact; and means for electrically coupling the rounded end portion of the contact to the electrical current path and for mechanically mounting the contact within the hole.

Compl. Speen. 8 pages.

Drgs. 3 Sheets.

CLASS: 64B<sub>1</sub>.

153107.

Int. Cl. H01h 1|12.

"FIECTRICAL CONTACT FOR AN ELECTRICAL CONNECTOR".

Aprlicant: THE BENDIX COPPORATION A CORPORATION OPCOMISED AND EXISTING HINDER THE LAWS OF THE STATE OF DELAWARE AND HAVING AN OFFICE AT EXECUTIVE OFFICES. BENDIX CENTRY SOUTHFIELD, MICHIGAN 48076, UNITED STATES OF AMERICA.

Inventors: NOPMAND CHARLES BOURDON, JAMES EDWARD MCKFOWN.

Application for patent No. 684 DEL 79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, New Delhi-110005.

### 3 Claims

An electrical contact for use as an electrical conductor termination in an electrical connector, said contact comprising an elongated body having a passage extending therethrough, said body having an external enlarged portion intermediate the length, an internal bore extending rearwardly from a forward end of the body, and a portion adapted to receive an electrical conductor at the rear ends.

a blurality of axially-aligned wires held within the internal bore and extending forwardly from the body; and

means for protecting the wires from damage and for preventing the wires from damaging a grommet, said means including a sengrate sleeve mounted to the body and extending around and forwardly of the axially-aligned wires to protect the wires from damage; and

means for releasably mounting the contact within the housing passage of the connector.

(Complete Specification 9 pages. Drawing one sheet).

CLASS: 147E

153108.

Int, Cl G 11 c 11 02.

A MAGNETIC RECORDING ARRANGEMENT HAVING A PAIR OF TAPER SPHERICAL FLAT HEADS FOR DUAI RECORDING ON FLEXIBLE MAGNETIC AND LIKE DISKS.

Applicants: BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventors: 1. ROGER RUSSEL STROMSTA, 2. MAR-SHALL ROBERT NATHANSON, 3. DENNIS STANLEY MORTON.

Application No. 575 Cal 79 filed June 2, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A magnetic recording arrangement comorising a pair of opposed recording means adapted to be translated relative to prescribed flexible record media, while recording or detecting data indicia thereon, each recording means being disposed on one respective side of the intermediate medium and commissing improved air-bearing surface means that is adapted to be flown above said flexible media and at relatively close tolerances thereabove, this surface means being characterized by a pair of opposed edge surfaces, each surface comprising a relatively flat, tanered entry-segment and an adjacent "spherical-flat" working-segment, said working segments being relatively identically curved and accommodating transducer means, whereby low-velocity stability is enhanced and "head-crash" is alleviated.

Compl. Specn. 17 pages. Drgs. 1 sheet.

CLASS: 108B<sub>1</sub>

153109.

Int. C1: C. 21 b 13 02.

METHOD FOR THE GASEOUS REDUCTION OF METAL OPES USING REDUCING GAS PRODUCED BY GASIFICATION OF SOLID OR LIQUID FOSSIL FUELS.

Applicants: GRUPO INDUSTRIAL ALFA. S.A., APDO. POSTAL 1000, MONTERREY, N. L., MEXICO.

Inventors: 1. IIIAN EFDERICO PRICE-FALCON, 2. ENRIQUE RAMON MARTINEZ-VERA.

Application No. 1128 Cal 80 filed October 3, 1980,

Appropriate office for opposit on proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A method for reducing particulate iron ore to sponge iron in a vertical shaft, moving bed reactor having a reforming zone in the upper portion thereof to which the iron ore is fed, a cooling zone in the lower portion thereof for cooling the sponge iron, and a reducing zone between the reforming and cooling zones for reducing the iron one to sponge iron which comprises preparing a reducing gas by the gasification of solid or liquid fossil fuels with oxygen and water vapour, mixing the reducings gas with steam, heating the resulting mixture to a temperature in the range of 300°C to 600°C, passing the heated mixture through the reforming zone in contact with iron-bearing material therein to reform the gaseous mixture to increase the hydrogen to carbon monoxide ration thereof, removing the reformed gas from the reforming zone and removing a portion of the carbon dioxide content and using the reformed gas to reduce iron ore in the reduction zone of said reactor.

Compl. speen. 18 pages. Drgs. 1 sheet.

Part III—Sec. 2]

CLASS: 29D

153110.

Int. Cl: G 06 f 7 00.

MULTIPLEXED DATA ACQUISITION SYSTEMS.

Applicants: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15-22, UNITED STATES OF AMERICA.

Inventor: 1. GYORGY ISTVAN VANCSA.

Application No. 93 Cal 81 filed January 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A multiplexed data acquisition system for deriving digital data from a central processor in relation to a plurality of remote analog data measuring points in parallel channels, the system comprising:

a plurality of like voltage-to-frequency (V|F) converters, each associated locally with a corresponding measuring point;

a central clock associated with said computer for providing a clock signal;

a plurality of like isolation transformers for providing communication, each between said computer and a corresponding one of said converters and said corresponding associated measuring point;

each of said V|F converters having a conversion cycle, and being capable of operation in a plurality of selectable operating modes;

said computer selecting one of said meauring points and an associated V|F converter, and said computer controlling the conversion cycle of said selected V|F converter with said clock signal through an associated isolation transformer.

Compl. spenc. 25 pages. Drgs. 2 sheets.

CLASS: 206E

153111.

Int. Cl.: H 01 p 3|20.

A WAVEGUIDE PREFORM AND A METHOD OF FORMING THE SAME.

Applicants: CORNING GLASS WORKS, AT HOUGHTON PARK, CORNING, NEW YORK 14830, UNITED STATES OF AMERICA.

Inventor: 1. PHILIP STEPHEN LEVIN.

Application No. 95 Cal 81 filed January 29, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 17 Claims

A waveguide preform form which a gradient index optical waveguide filament may be drawn and comprising an outer cladding layer, a barrier layer disposed on the inside wall surface of said cladding layer, and a core of high purity glass having a gradient index of refraction disposed within said barrier layer and adhered thereto to form an interface there between, said core comprising SiO<sub>2</sub> doped with a sufficient amount of a first oxide to increase the refractive index of the core to a value greater than that of said outer cladding layer, characterized in that for the preform to provide, when drawn, a high bandwidth multimode optical waveguide fiber the concentration gradient of said first oxide follows a power law gradient between the filament axis and a radius to that is less than the radius r<sub>a</sub> of said core, such that the refractive index is greatest at the filament axis, the concentration of said first oxide in said core at radii between r<sub>a</sub> and r<sub>d</sub> increasing from the concentration thereof in said barrier layer to the concentration thereof at said radius r<sub>a</sub> at a rate greater than the concentration of said first oxide would increase if

said power law gradient of said first oxide extended into said region between radii r. and r.

Compl. specn. 25 pages. Drgs. 3 sheets.

CLASS: 131As

153112.

Int. Cl.: E 01 g 3|04.

SYSTEM FOR MONITORING THE MOVEMENT OF A CUITING TOOL OF A TUNNEL-DRIVING MACHINE RELATIVE TO A DESIRED PROFILE.

Applicants: VOEST-ALKINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIERDRICHSTRASSE 4, AUSTRIA.

Inventors: 1. ALFRED ZITZ, 2. ERICH DROSCHER, 3. OTTO SCHETINA.

Application No. 363 Cal 81 filed April 1, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Ruics, 19/2) Patent Office, Calcutta.

#### 19 Claims

A system for monitoring the movement of a cutting tool of a tunnel-driving machine, which tool is rotatably mounted on a pivoted cutter arm and treely movable over a breast, relative to a desired profile of the tunnel to be driven, wherein a focussed electromagnetic wave train, which is aligned with the axis of the tunnel is used as well as a receiver mounted on the tunnel-driving machine, characterized in that the receiver (13) is displaceable transversely to the longitudinal axis (2) of the tunnel-driving machine and is mounted to be pivotally movable from a position in which it is parallel to the longitudinal axis of the tunnel-driving machine to a position in which the receiver is aligned with the axis of the focussed electromagnetic wave train (3), and that the parallel displacement and/or pivotal movement of the receiver (13) and the pivotal movement of the cutting tool (4) relative to the tunnel-driving machine are transmitted to a simulator (12, 64), which comprises a model (48) of the desired profile of the tunnel and a model (54) of the cutting tool.

Compl. specn. 30 pages. Drg. 6 sheets.

CLASS: 157D<sub>6</sub> c

153113.

Int. Cl.: E 01 b 9|28.

ELASTIC FASTENING OF RAILS TO CONCRETE CROSS TIES.

Applicants: ERNST SCHMITTHELM, FEDERN-UND METALLWAREN-FABRIK, OF HANS-BUNTE-STRABE 6, D-6900 HEIDELBERG, WEST GERMANY.

Inventor: 1. EBERHARD SCHMITTHELM.

Application No. 368 Cal 81 filed April 2, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972). Patent Office, Calcutta.

#### 1 Claim

Elastic fastening of rails to concrete cross ties, comprising a rail base having sides, a support surface formed on a cross tie, a guide plate being disposed at each side of said rail base and having a side surface facing away from said rail base being braced against said support surface, a spring strap for each guide plate including two inner legs each having a free end, two outes legs, an arc connecting each outer leg to an inner leg, and a strap region disposed on said rail base at a rail side connecting said outer legs to each other, a cross tie bolt extended through a hole formed in each of said guide plates between said inner legs, and a counter support being formed on each guide plate in the vicinity of a side surface thereof and being turned toward and parallel to said rail base, said arcs being downwardly curved and bearing against said counter support.

Compl. spenc. 8 pages. Drgs. 2 sheets.

CLASS: 62C1

153114.

Int. Cl.: C 09 b 67|00,

A DYE COMPOSITION.

Applicants: SUMITOMO CHEMICAL COMPANY, LIMITED, OF 15 KITAHAMA-5-CHOME, HIGASHI-KU, OSAKA, JAPAN.

Inventors: 1. KIYOYASU HASHIMOTO 2. KENJI YOSHINAGA, 3. KATSUNOBU SATO, 4. YOSHIO MORI, 5. JUNZABURO SEINO, 6. HIROHITO KENMOCHI, 7. TAIZO OHSHIMA.

Application No. 829 Cal 82 filed July 19, 1982.

Division of Application No. 740|Cal|79 dated 19th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Calcutta.

#### 2 Claims

A dye composition comprising 98 to 5% by weight of an anthraquinone dve of the formula (IV)

of the accompanying drawings wherein any one of X and Y is amino and the other is hydroxy, and n is a number satisfying the equation  $0 \le n < 2$ , and 2 to 95% by weight of a compound of the formula (I)

wherein  $R^1$  is methyl or ethyl,  $R^n$  and  $R^n$  are each  $C_n$  to  $C_n$  straight alkyl, and Z is chlorine or cyano.

Compl. specn. 40 Pages. Drgs. 9 sheets.

CLASS: 98 J.

153175.

Int. Class: F24j 3|02.

"A STORAGE TANK FOR USE WITH A SOLAR COL-LECTOR".

Applicant: BHARAT HEAVY ELECTRICALS LIMIT-ED, 18-20 Kasturba Gandhi Marg, New Delhi-110001, India, an Indian Company.

Inventors: RAJINDER KUMAR SURI & SURESH CHANDRA.

Application for patent No. 650|Del|79 filed on 17th September, 1979.

Complete specification left on 17th December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

### 5 Claims

A storage tank for a liquid for use with a solar collector comprising a shell with an insulating material provided on the outer surface, a first inlet for the Liquid, provided at the lower end of said tank and a first outlet for the liquid provided at the upper end of said tank and connected to a closed loop, a second inlet for the liquid, provided at the upper end of said tank and a second outlet for the liquid provided at the lower end of said tank and connected to said solar collector characterized in that a header having distribution pipes is connected to each of said inlets, for distributing the liquid evently in the tank without causing turbulence.

(Provisional specification 5 pages)

(Complete specification 7 pages. Drawing 1 sheet).

CLASS: 23 E.

153116.

Int. Cl.: B65d 5|00.

"A CARDBOARD BOX"

Applicant: UNISYSTEMS PRIVATE LIMITED, an Indian Company of 25 Community Centre, East of Kailash, New Delhi-110048, India.

Inventor: VISHWA KAMAL MEATTLE.

Application for patent No. 651|Del|79 filed on 17th September, 79.

Complete specification left on 17th November, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A cardboard box for the packaging of articles, such as shoes, comprising a box member and a cover member, said box member made from a single sheet of cardboard comprising a base extending into first flaps on opposite sides thereof, weak lines being provided between said base and said flaps so as to allow an upright positioning of said flaps to form a pair of side walls, said base further having a second pair of flaps, extending from the other pair of opposite sides of the base and in a direction at right angles to the first mentioned flaps, weak lines being provided between said base and second pair of flaps and such as to allow an upright positioning of said flaps to form end walls.

(Provisional specification 5 pages. Drawing 1 sheet).

(Complete specification 9 pages. Drawing 2 sheets).

CLASS: 64B<sub>3</sub> & 95H.

153117.

Int. Cl.: H01h 3|54, 1|00 & B25b 27|00.

"ELECTRICAL CONTACT EXTRACTION TOOL

Applicant: THE BENDIX CORPORATION, a corporation organised and existing under the laws of the State of Delaware and having an office at Executive Offices, Bendix Center, Southfield, Michigan 48076, United States of America.

Inventor: LEROY WALTER FAIRBAIRN.

Application for patent No. 676|DEL|79 filed on 24th September, 1979.

Convention date 20th February, 1979 5887 79 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

Tool for removing an electrical contact mounted within an insert passage of an electrical connector, the electrical contact being of the type having a plurality of extrally aligned fine wires held within and extending outwardly from a sleeve, characterized in that it comprises:

first member having a forward end for insertion into said insert passage and an internal bore extending rearwardly from the forward end said bore having a forward portion of a larger diameter, another portion of a smaller diameter located rearwardly of the forward portion and a rearwardly fucing shoulder located rearwardly of said smaller diameter portion, the bore of said first member receiving the electrical contact therein with the contact sleeve with a the forward portion and the axially aligned wires extending through the other portion and beyond the rearwardly facing shoulder when the forward end of said first member is inserted into the insert passage; and

a second member having a forwardly tapering end portion and mounted within said bore of the first member for reciprocal movement between a rear position and a forward position, said forward end portion extending forwardly within the smaller diameter portion of the bore of said first member when the second member is in its forward position, said tapering end portion urging the fine wires of the electrical contact outwardly and into pressure contact with the rearwardly facing shoulder when the first member has been inserted into the insert passage whereby the contact is firmly held between the first and second members of the tool so that the contact may be removed from said insert passage by the removal of the tool.

(Complete Specification 12 pages. Drawing 2 sheets).

CI.ASS: 172D<sub>0</sub>. 153118.

Int. Cl.: D01h 13|02.

"AN OPENING ROLLER FOR OPEN-END SPINNING MACHINES".

Applicant: HOI LINGSWORTH GmbH, a German company, of 7265 Neubulach 5, West Germany.

Inventor: KARL HEINZ SCHOLKE.

Application for patent No. 685|DE1|79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

An opening roller for open-end spinning machines comprising a cylindrical coller body and a sawtooth wire wound helically onto the outer surface thereof which has a base region widened in relation to the teeth and which is wound under tension onto the outer surface and fixed at its ends to the roller body, the base regions of adjacent turns of the sawtooth wire being separated by a gap from one another characterised in that the ratio of the height to the width of the base region is  $\leq 1$ .

(Complete Specification 6 pages. Drawing one sheet).

CLASS: 29D. 153119.

Int. Cl.: G01r 13/04.

"A SYSTEM FOR RECORDING ELECTRICAL SIGNALS, DISPLAYED ON A MOVING SUPPORT".

Applicant: THOMSON-CSF, a French company, of 173, Bl. Haussmann, 75008 Peris, France.

Inventors: GABRIEL LEJEUNE, CLAUDE VIALATTE AND BERNARD GRANCOIN.

Application for patent No. 689 DEL 79 filed on 25th September, 1979.

Convention date 28th June, 1979 79-22476 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A system for use in recording electrical signals corresponding to random disturbances and displaying them on a papertape recorder, comprising successively; input matching means for receiving on respective inputs said electrical signals, the input matching means being formed by matching circuits, multiplexing means for cyclically sampling the matched signals; analog to digital conversion means for converting the samles into digital form; a delaying device coupled to the output of said conversion means for delaying the multiplexed digitalized signals; a floppy disc recording assembly coupled to the delaying device for receiving the delayed signals, the assembly comprising a detachable floppy disc unit, in which the disc is controlled to be normally motionless and actuated to rotate to record the delayed signals upon detecting a disturbance; and a demultiplexing assembly connected to said floppy disc and operable for demultiplexing the signals recorded on the floppy disc and for delivering said signals to a paper tape recorder for displaying on paper floppy disc recorded information.

(Complete Specification 21 pages. Drawing 2 sheets).

CLASS: 85H

153120.

Int. Cl.: H05 b 3|62

A KILN FOR THE PRODUCTION OF HIGH PURITY

Applicants & Inventors: (1) CHITTETH KUMARAN NAIR GOVINDANKUTTY NAIR, OF VIJAYALAKSHMY MANDIRAM, EAST CHALAKUDY, CHALAKUDY VILLAGE, TRICHUR DISTRICT, KERALA & (2) PADHMANAB VENUGOPAL MENON, OF XLVIII 1308, EDAPALLY, COCHIN-24, KERALA, \*

Application No. 76 Mas 81 filed April 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 9 Claims

A kiln for the production of high purity lime comprising a feeding end at the top for the feeding of raw material, such as herein described, thereinto; a delivery end at the bottom for the discharge of lime therefrom; a heating zone comprising electric heating elements embedded in refractory bricks and protected by silicon carbide plates for calcining the raw material by the heat radiated by the said plates, characterised by a vacuum pump connected to the top of the kiln for inducing an upward draft of both cold air from the delivery end and CO<sub>2</sub> generated in the heating zone, whereby the lime descending from the heating zone is cooled in a cooling zone by releasing heat to the upcoming cold air from the delivery end and whereby the raw material, before descending to the heating zone is preheated and thus rendered dryhot by absorbing heat from the upcoming hot CO<sub>2</sub> and heated air lenving the cooling zone.

(Com.-8 pages; Drwg.-1 sheet).

**CLASS: 195C** 

153121.

Int. Cl. F 16 k 5 00

#### AN IMPROVED TAP

Applicant & Inventor: JANARDHANAN PADMANABHAN SUBRAMONIAM, C|O. EASLAND COMBINES, "GOMATHY BUILDINGS", C.I.T. ROAD, KILLIPALAM, TRIVANDRUM-695 002, KERALA.

Application No. 140 Mas 81 filed August 5, 1981.

Complete specification left June 22, 1982.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Madras Branch.

#### 11 Claims

An improved tap having a ball valve which sits on a valve seat provided with a valve body whose upper end is engaged with a connecting member connectable to the supply line of the fluid, an outer sleeve member disposed around the lower part of said valve body and having connected thereto or integrally formed therewith a discharge spout, said outer sleeve member having provided therein a push rod which is comprised of a tubular element with apertures provided around the upper part of its periphery, said push rod being capable of moving upwards along with the upward movement of said outer sleeve member to displace said ball valve from its seat to permit said fluid to pass through said apertures and to be discharged through said discharge spout whilst the tap is opened.

(Prov.—8 pages; Com.—11 pages; Drwgs.—2 sheets of size 33.00 cms,  $\times$  41.00 cms).

CLASS: 204

153122.

Int. Cl. G 01 g 1|36 & G 01 g 7|02

IMPROVEMENTS IN OR RELATING TO WEIGHING MACHINES INCORPORATING LOAD CELLS.

Applicant & Inventor: THAIVANNAN SESHAGIRI, Clo. GIRI BROS., 51, RAJAJI SALAI, MADRAS-600 001, TAMIL NADU.

Application No. 182 | Mas | 81 filed October 6, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 2 Claims

A weighing machine incrprating a load cell and comprising the known steelyard characterised by a counterweight provided on the steelyard and fixed thereto by known means for counterbalancing the dead load of the load-carrying structure; and a load cell connected between the steelyard and a support, such that it is only when there is a live load on the said machine that the load cell is stressed to sense only the live load.

(Com.-4 pages; Drwg.-1 sheet).

CLASS: 69-(D+I)

153123.

Int. Cl.: H 01 h 51 00 & H 01 h 53 00

SOLID STATE LIMIT SWITCH.

Applicant: CENTRAL MACHINE TOOL INSTITUTE, TUMKUR ROAD, BANGALORE-560022, KARNATAKA.

Inventor: BALA RAMAKUMAR.

Application No. 93|Mas|82 filed May 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 11 Claims

A solid state limit switch for sensing the presence of a metallic object within its sensing zone and operating an associated contactor (K1) depending upon presence or absence

of the said object, said switch comprising a transistorised oscillator (11) the output of which is connected to a rectifier D6 and a filter (C3), a voltage sensing circuit (12) connected to the output of the said filter (C3) and a thyristor (Th1) the gate of which is connected to the said voltage sensing circuit (12) the said contactor being operable by the said thyristor.

(Com.—9 pages; Drwgs.—2 sheets).

CLASS: 32C + 32E + 32F3a

153124.

Int: Cl. C08 g 17/00

A PROCESS FOR THE PREPARATION OF SORBITOL ESTERS OF ROSIN AND POLYROSIN.

Applicants: CAMPHOR AND ALLIED PRODUCTS LIMITED, JEHANGIR BUILDING, 133 MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

Inventors: 1. DR. ESWARAN RAGHAVAN, 2. DR. AJAI PRAKASH, 3. DR. SUKH DEV.

Application No. 193 BOM 80. Filed JULY 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

#### 5 Claims

1. A process for the preparation of sorbitol ester of rosin or polyrosin which comprises (a) the preparation of sorbitol paste, which is prepared by heating commercially available 70 per cent solution of sorbitol to 40°C to 100°C at pressure of 30 mm to 150 mm of mercury to a pasty material containing less than 10 per cent of water, (b) reacting one part by weight of the said sorbitol paste with four to eight parts by weight of rosin or polyrosin in the presence of a catalyst, such as herein described, at a temperature, such as herein described, and (c) isolating the sorbitol ester of rosin or polyrosin by pouring out the reaction product into a tray and allowed to cool.

Comp. specn. 7 pages.; drawgs. nil

Ind. Cl. 32E

Int. Cl. C08 g 17|00

153125.

A PROCESS FOR THE PREPARATION OF POLYESTER MODIFIED ROSIN AND POLYROSIN.

Applicants: CAMPHOR AND ALLIED PRODUCTS LIMITED, AN INDIAN COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT AND HAVING ITS REGISTERED OFFICE AT JEHANGIR BUILDING, 133 MAHATMA GANDHI RQAD, BOMBAY-400 023, MAHARASHTRA, INDIA.

Inventors: 1. DR. ESWARAN RAGHAVAN, 2. DR. AJAY PRAKASH, 3. DR. SUKH DEV.

Application No. 194 BOM 80. Filed on JULY 3, 1980.

Complete specification filed on JULY 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

### 7 Claims

1. A process for the preparation of polyester modified rosin and polyster modified polyrosin which comprises (a) preparing a polyester resin containing free hydroxyl groups by reaction of an ester of aromatic dicarboxylic acid, such as dimethyl terephthalate, of the general formlua I of the accompanying drawing, or a polyester of aromatic dicarboxylic acid such as polyethylene terephthalate, or an ester of aliphatic dicarboxylic acid, such as dimethyl adipate or succinate, of the general formula ROOC (CH<sub>2</sub>), COOR (where n=0 to 8 and R= alkyl or aryl) with a polyol containing 2 to 6 hydroxyl groups such as ethylene glycol,

diethylene glycol, glycerol, pentaerythritol or sorbitol in the presence of a catalyst such as herein described, and under reaction conditions such as herein described. (a) and (b) reacting one part by weight of the said polyester resin as prepared in step (a) with one to six parts by weight of rosin or polyrosin in situ at a temperature and other reaction conditions such as herein described.

Comp. specn. 7 pages. Drags. 1 sheet.

Ind. Cl. 147 J+187 E2

153126.

Int. Cl. H04 r 1|28, 1|02

IMPROVEMENTS IN OR RELATING TO SMALL LOUDSPEAKER CABINETS.

Applicant & Inventors: ADI PHIROZE PESTON JAMAS. ARPHI INCORPORATED, PRABHADEVI INDUSTRIAL ESTATE, VEER SAVARKAR MARG, BOMBAY-400 025, MAHARASHTRA, INDIA.

Application No. 251|Bom|80. Filed AUG 23, 1980.

COMPLETE SPECIFICATION AFTER PROVISIONAL LEFT ON NOV. 23, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

#### 2 Claims

1. A small loudspeaker cabinet with a front and a top panel, the front panel having a woofer and a tweeter and the top panel being provided with an acoustically coupled drone cone for reproduction of low frequencies.

Comp. specn. 5 pages. drgs. 2 sheet.

Prov. specn. 2 pages. drgs. nil.

Ind. Cl. 70A+B+C6

153127.

Int. Cl. C01d 1|06

A BIPOLAR DIAPHRAGM OR MEMBRANE ELECTROLYZER.

Applicant: ORONZIO DE NORA IMPIANTI ELETTRO-CHIMICI S.P.A. (AN ITALIAN CORPORATION), AT VIA BISTOLFI, 35. 20134 MILAN ITALY.

Inventor: ALBERTO PELLEGRI.

Application No. 350 BOM 80. Filed on NOV 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

## 12 Claims

1. A bipolar diaphragm or membrane electrolyser comprising a housing containing an end anode element, an end cathode element and a plurality of bipolar elements with their major dimensions lying in a substantially vertical plane and each formed of a bipolar wall separating an anode compartment and an cathode compartment and vertical foraminuous electrodes parallel positioned at a certain distance from the bipolar wall, diaphragms or membranes separating the anodes and cathodes, a series of baffles distributed along the entrie width of the electrode compartment and extending from the bipolar wall to the foraminous electrode to form a series of vertical flow channels extending over a large portion of the height of the wall, the said baffles being alternately inclined one way and the other way with respect to the vertical plane normal to the bipolar wall plane and spaced from one another whereby the ratio of the electrodes surface intercepted by the edges of two baffles laterally defining a vertical flow channel to the flow section thereof is different from the ratio of the electrodes surface intercepted by the edge of one of said two baffles and the edge of the adjacent channel in the series and the flow section of the adjacent channel in the series to the said vertical flow channel.

Comp. specn. 24 pages. Drgs. 4 sheets.

Ind. Cl. 195A+199

153128.

Int. Cl. F 16k 33|00

A DEVICE FOR CONTROLLING WATER LEVEL IN OVER HEAD TANKS.

Applicant: VINEET SUBHASH MARATHE 59|106 DECCAN GYMKHANA, GHARKUL PRABHAT ROAD, 3RD LANE PUNE-411 004, MAHARASHTRA, INDIA.

Inventor: SUBHASH SHANKAR MARATHE.

Application No. 99 BOM 81. Filed on APRIL 8, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

#### Claim 1

1. Device for controlling water level in overhead tanks comprising a closed chamber having a built in receptacle type another chamber and provided with an inlet for passing there through a main supply line coming from the water source, an outlet leading towards plurality to tanks, a known type of float is interlocated on the main supply line inside the said chamber keeping the float working in hte said receptacle of the said chamber, the said receptacle receiving water from a pipe interconnected to the said receptacle receiving water from a pipe interconnected to the said receptacle to the said receptacle portion to operate the said float which in turn opens or closes the valve to respectively start or shut water supply to the tanks: the said closed chamber being located at such level that the said float should rise upto the water supply level of the tank before closing the valve to shut off the water supply to the tanks.

Comp. specn. 5 pages. Drags. 3 sheets.

Ind. Class: 70A+B+C6

153129.

Int. Class: Cold 1 06

Title: NOVEL ELECTROLYZER HAVING MEANS FOR FLECTRICALLY CONNECTING VALVE METAL ANODE RIBS AND CATHODICALLY RESISTANT METAL CATHODE RIBS.

Applicant: ORONZIO DE NORA IMPIANTI FLECTRO CHIMICI. S.D.A. (AN ITALIAN CORPORATION) AT VIA BISTOLFI 35, 20134 MILAN, ITALY.

Inventor: ALBERTO PELLEGRI.

Application No. 345|BOM|82. Filed on DEC 30, 1982.

Ante-dated to 17-11-1980 (Divisional of 350|BOM|1980).

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office Bombay Branch.

## 2 Claims

1. An electrolyzer having means for electrically connecting valve metal anode ribs and cathodically resistant metal cathode ribs through a bipolar plate comprising a valve metal sheet on the anode side and steel plate on the cathods side of the bipolar plate, bimetal strips with a valve metal side and a copper side to which at least one copper threaded stem is welded, inserted into grooves cut on the steel plate side opposite to the valve metal sheet with the copper threaded stem emerging through a hole through the bottom of the grooves of the steel plate, steel nuts screwed on the copper threaded stems from the cathode surface of the steel plate to provide a leak-proof connection, and the ribs and the valve metal sheet welded on the valve metal side of the bimetal strips being inserted into the grooves of the steel plate and the cathodically resistant cathode ribs being welded to the said steel nuts.

Comp. specn. 12 pages. Drg. 1 sheet.

CLASS, 47A

153130.

Int. Cl. C 10 b 51|00 C 10 b 55|02.

PROCESS AND APPARATUS FOR CALCINING COKP.

Applicants: GREAT LAKES CARBON CORPORATION, OF 299 PARK AVENUE, NEW YORK STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors: 1. FRANKLIN HENRY WELTER 2. DEAN HARRINGTON GUFFEY, 3. DONALD A BOTTING.

Application No. 128 Cal 80 filed February 4, 1980.

Appropriate office for opposition proceedings Rule 4 Patents Rules, 1972), Patent Office, Calcutta.

#### 9 Claims

A process of calcining raw petroleum coke or other carbonaceous material in which the calcining is carried out in air enriched with a controlled amount of oxygen, substantially all of the heat necessary for calcination being derived from combustion in the oxygen enriched atmosphere of the volatile matter driven off during calcination.

Compl. specn. 12 pages. Drgs. 1 sheet.

CLASS: 146Di.

153131.

Int. Cl. G01 b 11|00, G01 n 21|00,

APPARATUS FOR STUDYING SURFACE PROPERTIES OF A TESTPIECE BY MEANS OF ELECTROMAGNETIC RADIATION.

APPARATUS FOR STUDYING SURFACE PROPERTIES OF HEADELUNDSVAGEN 5, S-41743 GOTEBORG, SWEDEN, LARS BERTIL STIBLERT, OF OVRE BESVARSGATAN 4, S-41129 GOTEBORG, SWEDEN AND ERLAND TORBJORN SANDSTROM.

Inventors: OF JUNGMANSGATAN 53, S-41311 GOTF-BORG, SWEDEN.

Application No. 446 Cal 80 filed April 17, 1980.

Convention date 14th April, 1980 (80101993.6) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

### 12 Claims.

Apparatus for studying surface properties of a testplece by means of electromagnetic radiation, comprising:

- (a) a radiation source,
- (b) means for holding the testplece,
- (c) Polarizing means disposed in the radiation beam path upstream of the testpiece, for producing polarized radiation,
- (d) analyzing means disposed in the radiation beam path downstream of the testpiece for extinguishing polarized radiation reflected by the testpiece,
- (c) means for providing a reference surface with known properties, disposed between the polarizing means and the analyzing means,

Whereby the radiation is reflected from one said surface to the other, the angles of incidence of the radiation at said surfaces are at least substantially identical and the polarization direction of the radiation reflected at one said surface, being parallel to the plane of incidence at said one surface, is perpendicular to the plane of incidence at the other of said surfaces.

Compl. Specn. 17 pages.

Drgs. 7 Sheets.

CLASS: 40E.

153132.

Int. Cl. B01 d 19|00, B04 c 3|00.

SEPARATOR FOR OIL AND GAS, AND PROCESS FOR SEPARATING OIL AND GAS THEREWITH.

Applicants: THE BRITISH PETROLEUM COMPANY LIMITZD, OF BRITANNIC HOUSE, MOOR LANE, LONDON, EC2Y 9BU, ENGLAND,

Inventors: 1. EVAN FLLIS DAVIES, 2. JIRI RUDOLF MEBRENSKY.

Application No. 450 Cal 80 filed April 18, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims.

A separator suitable for installation at a crude oil gathering centre for separating a crude oil feed containing gas into gas and liquid the separator comprising a vessel having (i) a controllable inlet for feed disposed so that feed introduced under a pressure gradient is caused to form a downwardly flowing vortex of liquid and in upwardly flowing vortex of gas, (ii) at upper outlet for the vortex of gas comprising a pipe extending downwardly into the vessel from the top thereof herein referred to as a vortex finder, (iii) a lower outlet for the liquid, the vessel further having located therein below the inlet, (iv) a downwardly extending hollow cylinder to provide a surface for the downwardly flowing vortex of liquid, the walls of the vessel being spaced apart from the cylinder to define therebetween a chamber, herein referred to as a disengaging chamber and (v) an outlet for the discharge of gas from the disengaging chamber.

Compl. Specn. 14 pages.

Drgs. 4 Sheets:

CLASS: 105B & 199.

153133.

Int. Cl. G01 f 23|00.

SENSOR FOR MEASURING TEAKAGE.

Applicants: SUN OIL COMPANY, OF 1608 WAI NUT STREFT PHILADELPHIA, PENNSYLVANIA 19103, U.S.A.

Inventor: 1. WILLIAM BRAY HANSEL.

Application No. 1119 Cal 80 filed October 1, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

### 2 Claims.

A sensor device useful for measuring mass displacement in a leaking tank comprising a main body portion having suspension means for attachment to a balance arm or other means for mass displacement detection and a liquid holding portion in said sensor body to hold liquid above the level of liquid in said tank, the cross-sectional area of said liquid holding portion being essentially equal to the cross-sectional area of the body portion in contact with the liquid in the tank, whereby changes in said mass displacement deasurement due to evaporative losses are compensated.

Compl. Speen, 9 pages.

Drgs. 4 Sheets.

CLASS: 131B.

153134.

Int. Cl. E21 B 9|00.

IMPROVED METHOD OF MAKING DIAMOND COMPACTS FOR ROCK DRILLING.

Applicants: GENERAL FLECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventor: 1. HAROLD PAUL BOVENKERK.

Application No. 1191 | Cal | 80 filed October 22, 1980.

Appropriate office for opposition proceedings (Rule 4. Patents Rule, 1972) Patent Office, Calcutta,

### 9 Claims.

A method for making a composite diamond compact for use in rock drilling having an inner polycrystalline diamond mass surrounded by and bonded to an outer metal mass, which method comprises:

- A. Positioning in an enclosure a sample comprising a formed hollow mass of metal containing a diamond forming catalyst and a mass of non-diamond curbon within the formed metal mass and in confact therewith.
- B. Subjecting the sample to pressure-temperature conditions within the diamond stable region and above the catalyst melting point;
- Reducing the temperature and pressure of the sample; and
- D. Recovering the resulting composite diamond compact; characterized by disposing diamond seed crystals having a largest dimension of from 0.1 to 500 microns at the interface between the outer mass of metal and the inner mass of non-diamond carbon in step A.

Compl. Specn. 14 pages.

Drgs. 2 Sheets.

CLASS: 48C.

153135.

Int. Cl. H01 b 19]00.

METHOD OF MAKING FLEXIBLE MICA INSULATING TAPES AND INSULATED HIGH VOLTAGES ELECTRICAL APPARATUSES COMPRISING SAID TAPES.

Applicants: WESTINGHOUSE ELECTRIC CORPORA-TION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PFNNSYLVANIA 15222, UNITES OF AMERICA.

Inventors: 1. JAMPS DAVID BLACKHALL SMITH AND 2. ROBERT NEWELL KAUFFMAN.

Application No. 563 Cal 80 filed May 12, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

#### 16 Claims.

A method of making a flexible mica insulating tope which comprises:

- (A) preparing a composition by mixing
  - (i) semi-solid epoxide, a mixture of solid epoxide and liquid epoxide or a mixture of semi-solid epoxide and liquid epoxide, with a solvent for said epoxide, where the wright ration of total epoxide to toal solvent is from 85; 15 to 10; 90;
  - (ii) from 0.01 to 5.0 phr of an organotin compound having the structural formula :

### R<sub>3</sub> Sn X

where each R is an organic group and each X is selected from halide, hydroxide, acetate, butyrate, propionate or dimethyl phosphate; and

- (iii) from 0.001 to 1 phr of an activator selected from catechol, pyrogallol and mixtures thereof:
- (B) applying said composition to a flexible sheet material comprising mica, so that organotin compound contacts mica causing the organotin compound to act as a latent catalyst; and then
- (C) removing at least 95 weight percent of the solvent from the epoxide resin-solvent-organotin catalyst admixture in the sheet material without any substantial curing of the epoxide resin of reaction of the organotin compound, forming a flexible sheet with substantially unreacted epoxide resin and causing an increased amount of substantially unreacted organo-tin compound to contact mica in the sheet material; wherein the amount of organo-tin compound added is effective 3—87GI|84

to advance the epoxide resin in the sheet material from the substantially unreacted state to a cured thermoset state upon heating over a resin-catalyst temperature of 150°C.

Compl. Specn. 34 pages.

Drgs. 5 Sheets.

CLASS: 52A.

153136.

Int. Cl. D06 h 7]02,

APPARATUS FOR SEVERING A HIBRE LAYER OF MUTUALLY SLIDEABLE STAPLE FIBRES.

Applicants: MASCHINENFABRIK RIETER R. G., OF WINTERTHUR, SWITZERLAND.

Inventors: 1. PAUL GYGER 2. SCHAR HUGO.

Application No. 792 Cal 80 filed July 9, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

#### 7 Claims.

Apparatus for severing a fibre layer of mutually slideable slaple fibres, with two pairs of driven rolls, which form two nip lines for the fibre layer guided thereinbetween, characterized in that the two pairs of rolls (9|10; 11|12) are cincatically couples using a flexible power transmitting element (19), and that the element (19) is guided about the drive roll (20, or 21 respectively) of the driven roll (9, or 11 respectively) of each pair of rolls (9|10; 11|12), and about at least two further deflecting rolls (22, 23), which are fixed relative to the room, as well as about two rolls (27, 28) which are movable with respect to the room and are interconnected into a roll tandem (26), in such manner that it forms a loop (32, and 33 respectively) each between the drive rolls, (20, 21) and one (27) of the rolls (27, 28) of the tandem (26), and between the two deflecting rolls (22, 23) and the other roll (28) of the tandem (26), such that as the movable roll tandem (26), is moved, one of the loops (32, or 33 respectively) is shortened by a certain length (L) while the other one (33, or 32 respectively) is lengthened by the same length (L), and that thus one pair of rolls (11, 12) can be rotated relative to the other one (9, 10). the fibre layer (3) clamped between the nip lines (m, n) being severed by drafting.

Compl. Specn. 16 pages.

Drgs, 1 Sheet.

CLASS: 56A.

153137.

Int. Cl. B01 d 3 14.

PROCESS OF AND APPARATUS FOR THE SEPARATION OF THE INGREDIENTS OF A GASEOUS MIXTURE.

Applicants: IINDE AKTIENGFSELLSCHAFT, ABRA-HAM-IINCOLN-STRASSE 21, D-6200 WIESBADEN, FFD-FRAL REPUBLIC OF GERMANY.

Inventor: 1. WILHELM ROHDE.

Application No. 968|Cal|80 filed August 23, 1980,

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

## 9 Claims.

A process for the separation of the ingredients of a gaseous mixture by rectification, wherein liquid in the sump of a rectifying column is heated and thereby partially vaporized; and simultaneously sump liquid is withdrawn from a lower zone of the sump liquid bath, and is recycled into the bath above the point of withdrawal, the improvement which comorises the steps, prior to the recycle step, of passing the withdrawn sump liquid from the lower zone into a heat exchanger, said heat exchanger having a bottom end at a level below the liquid level of the sump; said withdrawn sump liquid being passed into the bottom end of said heat exchanger and par-

tially vaporized therein, and removing resultant liquid-vapor mixture from the heat exchanger at the top end above the level of the liquid bath.

Compl. Specn. 13 pages,

Drgs. 2 Sheets.

CLASS: 129G.

153138.

Int. Cl. B25 f 3,00.

APPARATUS FOR CALIBRATING A TORQUE MEASURING TRANSDUCER.

Applicants: CUMMINS FNGINF COMPANY, INC., AT 1000 5TH STREFT. COLUMBUS, INDIANA, UNITED STATES OF AMERICA.

Inventors § 1. ROBERT HARLOD REED, 2. DAVID FREDERICK YAGGER.

Application No. 987 Cal 80 filed August 28, 1980,

Appropriate office for opposition proceedings (Rule 4-Patents Rule, 1972) Patent Office, Calcutta.

#### 14 Claims.

Apparatus for calibrating a torque measuring transducer mounted on a transducer supporting spindle within a machine tool having a plurality of spindles arranged akjacent one another, said apparatus comprising

- (a) a torque coupling means for attachment to the transducer supporting spindle and for applying a torque to the transducer supporting spindle, said torque coupling means including a master transducer means for measuring the actual amount of torque being applied to the torque supporting spindle;
- (b) support coupling means for connection with a spindle adjacent the transducer supporting spindle and for transferring reactive forces resulting from application of a torque to the transducer supporting spindle to the adjacent spindle; and
- (c) torque control means connected with said torque coupling means and with said support coupling means for controlling the amount of torque applied to the transducer supporting spindle by said torque at a fixed level to permit comparison of the output of the master transducer and the transducer being calibrated.

Compl. Specn. 21 pages.

Drgs. 4 Sheets.

CLASS: 108B<sub>1</sub>,

153139.

Int. Cl. C21 b 13|08.

PROCESS OF INIFCTING GASES INTO THE CHARGE OF A ROTARY KILN FOR A DIRECT REDUCTION OF IRON ORF.

Applicants: METALLEGESELLSCHAFT  $\Lambda$ . G., OF 16, FRANKFURT A.M. REUTERWEG, WEST GERMANY.

Inventors: 1. DR. ING. WERNER WENZFL, 2. DR. ING. HEINRICH-WILHELM GUDENAU, 3. ARTUR JANIKOW.

Application No. 1190|Cal|80 filed October 21, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office, Calcutta.

## 4 Claims,

A process for the production of iron by direct reaction of iron ore in a rotary kiln wherein iron ore is subjected to reduction by subjecting to heating in presence of a reducing gas and wherein a combustion air stream is injected into the material (charge bed) undergoing reduction in the preheating zone and wherein reducing gas stream is injected into the material undergoing reduction in the reduction zone of the

kiln, characterised by the improvement wherein the rate of injection of combustion air and/or reducing gas into the material undergoing reduction is dependent upon the height of the bed of the material over the injection nozzle/nozzles used for injecting the combustion air and/or reducing gas such that lower rate of combustion airland/or reducing gas is injected into those portions of the material undergoing reduction which are smaller in height compared to higher rate of injection of the combustion air and/or reducing gas into those portions of the material undergoing reduction which are comparatively higher in height.

Compl. Speen. 7 pages,

Drg. 1 Sheet.

CLASS: 70B,

153140.

4Int. Cl. B01 k 3100, C08 j 1134.

AN IMPROVED PROCESS FOR ELECTROLYZING AND AN JON EXCHANGE MEMBRANE CELL FOR CARRYING IT OUT.

Applicants: ASAHI GLASS COMPANY LTD, OF NO. 1-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors: 1. YOSHIO ODA, 2. TAKESHI MORIMOTO, 3. KOHII SUZUKI.

Application No. 1270 Cal 80 filed November 13, 1980,

Appropriate office for opposition proceedings (Rule 4. Patents Rule, 1972) Patent Office, Calcutta.

### 38 Claims,

An improved process for electrolyzing an aqueous solution of an alkali metal chloride in an electrolytic cell comprising an anode, a cathode, an anode compartment and a cathode compartment formed by partitioning with an ion exchange membrane, wherein the improvement comprises in that a gas and liquid permeable porous non-electrode layer is bonded to at least one of surfaces of said ion exchange membrane and an aqueous solution of an alkali metal chloride is fed into said anode compartment to form chlorine on said anode and to form an alkali metal hydroxide in said cathode compartment

Compl. Specn. 49 pages.

Drgs. 2 Sheets.

## OPPOSITION PROCEEDINGS

(1)

The application for Patent No. 145772 made by Shri Mahesh Anantral Pattani in respect of which an opposition was entered by Shri Gopi Kishan Kabra as notified in Part III, Section 2 of the Gazette of India dated 11th August, 1979 has been refused.

(2)

An opposition has been entered by Director General, Research Designs and Standards Organisation, Ministry of Railways, to the grant of a patent on application No. 152207 made by Hoesch Werke Aktiengesellschaft.

## PATENTS SEALFD

149753 151327 151408 151529 151603 151638 151661 151697\*
151756 151791 151855 151872 151901 151908 151909 151912
151914 151917 151921 151922 151924 151925 151926 151930
151936

ELECTRICAL ENGG LIST IV

## COMMERCIAL WORKING OF THE PATENTED INVENTION

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of the patents Act, 1970 in respect of calender year 1982, generally on account of want of request for homes to work the said patents commercially may contact the patentees for the grant of licence for the purpose.

Sr. No.	Patent No.	date of Patent	Name & Address of the Patentees	Title of the Invention
	2	3	4	5
l	144169	29-4-1975	WESTINGHOUES ELECTRIC COR- PORATON of Westinghouse bldg. Gateway Centre, Pittsburgh, Pennsyl- vania 15222, U.S.A.	Electrical bushing having a spiral tap assembly.
2.	144193	6-10-1975	JOHANNES ZIMMER of Eboustalerst- rasse 133, 9020 Klagenfurt, Austřia.	A device for treating a wob of material.
3.	144301	2-12-1974	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232 U.S.A.	A binary data processor system.
4.	144302	2-12-1974	Do.	Binary data driven processor system having storage means & input circuit means.
5.	144307	20-8-1975	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway Centre Pittsburgh. Pennsylvania U.S.A.	Dynamo-electiic machaine.
6.	144409	29-6-1976 -	UNION CARBIDE CORPORATION of 270 Park avenue, New York State of New York 10017 U.S.A.	Electrochemical Cell.
7.	144416	11-9-1975	MCGRAW-EDISON COMPANY of 333 West River Road, Eigin, Illinois U.S.A.	Electrical capacitor having an improved dielectric system & a method of processing the capacitor.
8.	144541	19-4-1976	RCA CORPORATION of 30 Rockefeller plaza, New York, New York, 10020 U.S.A.	Integrated circuit device including both N-channel & P-Channel insulated gate field effect transistors.
9.	144693	26-2-1976	SIEMENS A.G. of Berlin & Munich, West Gernany	Automatic control circuitry for apparatus affected by dead time.
10.	144751	23-8-1976	INCO EUROPE LTD. of Thames House, Millbank London SWIP 4QF	Process & apparatus for the production of perforated fail metal.
11.	144790	29-4-1975	SAINT GOBAIN INDUSTRIES of 62 Boulevard. Victor Hugo 92209 Neuilly sur seine, France.	Heatable window pane & vehicle incorporating in it.
12.	144811	20-9-1976	KRAFTWERK UNION AKTIENGES- ELLSCHAFT of 433 Mulheim Ruhr Wies- enstr, 35, F.R.G.	Apparatus for monitoring mechanical torque.
13.	144823	7-4-1976	ASAHI GLASS COMPANY LTD. of No. 1-2, Marunouchi, 2-chome Chiyoda-ku, Tokyo, Japan.	Electrolytic cell.
14.	144873	13-9-1976	SIEMENS A.G. of Berlin & Munich, West Germany.	Improvements in or relating to housing assemblies for use in a electrically operated communication & measuring apparatus.
15.	144891	7-6-1976	GOULD INC. 10 Gould Center, Rolling Meadows Illinois 60008, U.S.A.	A water activatable lead-acid storage battery & mothod of manufacturing the same
16.	144904	12-11-1975	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232 U.S.A.	An integrated circuit package and method of forming it.

1	2	3	4	5
17.	145181	25-11-1975	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center Pittsburg, Pennsylvania U.S.A.	Electrical apparatus having conductors boarded together with flexible belts.
18.	145208	26-11-1975	Do.	Electro mechanical apparatus for securing & winding conductors of a turbine generator.
19.	145219	15-12-1976	DAMP S.P.A. of via Locatelli 24 C. 24100 Borgamo Italy.	A spacing member for wire groups in electrical everhead lines.
20.	145327	30-5-1975	ALUMINIUM PECHINEY of 28 Rue de Bonnel 69003 Lyon, France.	A spacing member for wire groups in electrical everhead lines. Apparatus for continuously determining the interval resistance of an electrolysis cell.
21.	145388	29-6-1976	HOOGOVENS IJMUIDEN B.V. of Wonckebachstraat Ijmuidon, The Notherlands.	Electrically driven apparatus for operating a railway point & a railway point incorporating such apparatus.
22.	145446	17-1 <b>-</b> 1977	JOHNSON & JOHNSON of 501 George street New Brunswick, New Jersey U.S.A.	An electrode providing electrical contact with a patents skin,
23.	145543	25-1-1977	Girish Mohan Kamra of Currently of smite No. B-15,8735-165 Street Edmonton, Alberts Canada.	An electrical appliance.
24.	145644	20-6-1975	BURROUGHS CORPORATION of Burroughs place Detroit, Michigan 48232, U.S.A.	Apparatus for controlling the position of a carrier means.
25.	145674	7-10- <b>19</b> 77	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main 80, F.R.G.	Metal anodes suitable for use in the electrolytic production of manganese dioxide & a Process of manufacturing the same.
26.	145687	12-1-1977	S.E.P.M. SOCIETE 'D' EXPLOITA- TION DES PROCEDES MARECHAL (SOCIETE ANONYME) of 92 Avenuc de saint Mando 75102 Paris, France.	Electrical contact.
27.	145786	20-11-1975	RCA CORPORATION of 30 Rockefeller Plaza, New York, N.Y. 10020 U.S.A.	A cathode ray tube deflection system.
28.	145796	22-12-1976	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center, Pittsburgh, Ponnsylvania 15222, U.S.A.	Low voltage vacuum switch and operating mechanism.
29.	145863	29-9-1976	Do.	Capacitive voltage transformer with improved compensating reactor arrangements.
30.	145880	13-9-1976	ME. GRAW EDISON CO. of 333 West River Road Elgin. Illinois, U.S.A.	A method & apparatus for preparing a capacitor.
31.	146014	11-2-1976	GOULD INC. of 10 Gould contre, Rolling Meadows, Illinois 60008 U.S.A.	Explosion-proof gang vent for closing the cell opening of a storage battery.
32.	146033	3-10-1975	GOULD INC. of 8550 West Bryn, Mawr chicago, Illinois, U.S.A.	A lead-acid battery.
33.	146034	10-9-1975	Do.	Maintenance-free lead acid storage battery.
34.	146035	10-9-1975	Do.	Lead-acid battery.
35.	146036	10-9-1975	Do.	Maintenance free lead acid storage battery having improved current draw characteristics.
<b>3</b> 6.	146049	22-7-1976	THE NEWALL ENGINEERING COM-PAMY LTD. of Oundle Road-Peter-corough, PE 20BL England.	Position detectors for measuring relative movement and/or displacement.
37.	146051	6-10-1976	RCA CORPORATION of 30 Rockefeller Plaza, New York 10020 U.S.A.	A television kenescope deflection.

1	2	3	4	5
38.	146134	18-9-1976	MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK Gmbh & Co. Kg. of 8 Falkensteinstrasse, 84, Regensburg F.R.G.	Drive transmission for the drive of an on-load tap changer for a tapped transformer.
39.	146186	2-2-1977	HAZEMELJER B.V. of Tuindorpstraot 61 Hengelo, the Netherlands.	Vacuum Switch.
40.	.46197	29-1-1977	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway center. Pittsburgh, Pennsylvania 15222 U.S.A.	Surge arrester gap & grading means.
41.	146295	10-11-1976	GOULD INC. of Gould centre, Rolling meadows, Illinois-60008, U.S.A.	Battery cover for facilitating the drawing of liquid from the battery when inverted.
42.	146296	28-1-1977	THE ENGLISH ELECTRIC COMPANY LTD. of 1 Stanhope Gate, London Wla, 1H, England.	Electrical terminal connector.
43.	146318	14-7-1976	D <sub>0</sub> .	Improvements in or relating to directional relays.
44.	146338	3-7-1978	UNION CARBIDE INDIA LTD. of 1 Middleton street, Calcutta-700016 west Bengal, India	Separate electrolyte paste & Zinc manganese dioxide dry cell of improved leakproofness containing same.
45.	146387	24-2-1977	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway centre Pittsburgh, Pennsylvania 15222 U.S.A.	Circuit breaker with improved trip means having a high rating shunt trip.
46.	146414	22-11-1976	THE GENERAL ELECTRIC COM- PANY LIMITED, of 1 Stanhope Gate London WJA, 1EH, England.	Periodic waveform voltage level detecting apparatus.
47.	146424	13-4-1977	BADISCHE CORPORATION of Willamsburg, state of Virginia 23185, U.S.A.	Integral electrically-conductive textile filament.
48.	146540	22-11-1976	THE GENERAL ELECTRIC COM- PANY LIMITED, of 1 stanhope gate, London WIA 1EH England.	Electrical coupling arrangements.
49.	146560	6-10-1976	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway centre Pittsburgh Pennsylvania 15222, U.S.A.	Capacitive Voltage transformers.
50.	146590	18-3-1977	HASLER AG. of Belpstrasso 23, 3000 Bern 14, Switzerland.	System for transmission of Digital information.
51.	146599	1-12-1976	CANNING MITRA PHOENIX LTD. of Eucharistic congress Bldg. III, 5 convent street city of Bombay, state of Maharashtra, India.	An improved acidic zinc electroplating bath for bright or glossy zinc electrodeposition and a process therefor.
52.	146642	21-6-1977	MARSTON LIMITED of Wobaston Road, Ford houses Wolverhampton WV 10 6 QJ, England.	Electrode-for use in a diphragm or membrane.
53.	146660	2-2-1977	COMBUSTION ENGINEERING INC. of 1000 Prospect Hill Road, Windsor, connecticut.	A storage device for receiving an input signal & processing it to produce an output signal using an analog converter.
54.	146748	22-12-1976	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway centre Pittsburgh pennsylvania, 15222, U.S.A.	Low voltage vacuum switching and method of manufacturing the same.
55.	146778	17-3-1978	GLOBE-UNION INC. of P.O. Box 591 Milwaukee, Wisconsin 53201, U.S.A.	A battery grid & method of manufacturing the same.
56.	146788	10-6-1974	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway centre Pittsburgh, Pennsylvania- 15222 U.S.A.	Flexible non-tacky prepegs and method of making same.

<u> </u>	2	3	4	5
57.	146792	6-10-1976	SIEMENS-ALBIS AKTIENGESELLS- CHAFT of Albisriederstrasse 245, 8047 Zurich, Switzerland.	Arrangements for correcting deviations from the true bearing caused by reflecting surfaces in target tracking radar installations.
58.	146793	20-1-1977	RCA CORPORATION of 30 Rockefeller, Plaza, New York, N.Y. 10020 U.S.A.	A semiconductor device.
59.	146854	22-11-1976	THE GENERAL ELECTRIC COMPANY LTD. of 1 Stanhope Gate, London WIA 1EH, England.	Improvements in or relating to apparatus for indicating the sequence of alternating current signals.
60.	146 <del>9</del> 17	20-3-1978	GOPI KISHAN KABRA of 17 Camac Street, Calcutta, State of West Bengal, India.	A sparker
61.	146931	20-5-1976	SIEMENS AG of Berlin & munich, West Germany.	A corner connection for three frame members particularly for switchgear unit.
62.	146997	17-11-1977	ERNEST SPRING of Woven Strasse 37, Ch-8640, Rapperswil, Switzerland.	Improved water decomposition apparatus.
63.	147039	31-7-1978	DIRECTOR GENERAL RESEARCH DESIGNS & STANDARD ORGANI- SATION (Ministry of Railways) of Alambagh, Lucknow-5, State of Uttar Pradosh, India.	A magnetic extensometer.
64.	147069	22-12-1976	CONTRAVES A.G. of Schaffauser strasse 580, 8052, Zurich, Switzerland.	A combination of a vehicle & an electrical power generation set.
65.	147177	11-11-1976	THE GENERAL ELECTRIC COMPANY LTD. of 1 stanhope Gate, London WIA, IEH, England.	A strating relay arrangement
66.	147274	17-2-1977	UNION CARBIDE CORPORATION of 270 Park Avenue, New York, State of New York, U.S.A.	An electrochemical cell.
67.	147275	17-2-1977	UNION CARBIDE CORPORATION of 270 Park avenue, New York, State of New York, U.S.A.	An electrochemical cell.
68.	147292	2-3-1977	WESTING HOUSE ELECTRIC CORPORATION of Westing House Bld. Gateway Center, Pittsburgh Pennsylvania 15222 U.S.A.	A method of producing semiconductor switch in devices.
69.	147311	18-2-1977	HAZEMEIJER B.V. of Tuindorpstraat 61, Hengelo, the Netherlands.	Vacuum switch.
70,	147445	12-7-1977	SIEMENS AG. of Berlin & Munchen, Federal Republic of Germany.	Alternating current regulator.
71.	147458	5-12-1977	FERRANTI LIMITED, of Hollinwood, Lancashire, England.	Electric circuits for digitising data.
72.	147468	24-7-1978	UNION CARBIDE INDIA-LTD. of 1 Middleton Street, Calcutta-700 016, West Bengal, India.	Battery operated device for lighting gas.
73.	147556	16-2-1978	ASEA AKTIEBOLAG of S-721 83 Vasteras Sweden.	Protective device for capacitor bank.
74.	1475 %2	2-1-1978	RCA CORPORATION of 30 Rockefeller, Plaza, New York, N.Y. 10020 U.S.A.	Semiconductor device & method of making thereof.
75.	147578	2-1-1978	Do.	Multi-layered passivating structure for semiconductor devices & method of fabricating the same.

### ELECTRICAL ENGG LIST-V

## COMMERCIAL WORKING OF PATENTED INVENTION

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them undersection 146(2) of Patents Act, 1970, in respect of calender year 1982, generally on account of want of requests for licences to work for the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of alicence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name & Address of Patentees	Title of the Invention
1	2	3	4	5
1.	147814	7-4-1977	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bld. Gateway Center, Pittsburgh Pennsylvania, 15222 U.S.A.	A method of fabricating thyristor & diode semiconductor devices by tailoring or modifying their recovery charges.
2.	147879	24-5-1977	SIEMENS AG. of Berlin & Munich, West Germany.	Electric switchgear.
3.	147919	19-4-1978	CHUGAI DENKI KOGYO KABU- SHIKI KAISHA of 13/3 Nihonbashi- Kayabacho 2-chome, Tokyo, Japan.	A method of making improved Ag-meta oxides electrical contact materials.
4.	147951	6-7-1978	IMI MARSTON LIMITED of Wobaston Road, Fordhouses Wolver-hampton WV 10 6 QJ, England.	Electrica Connector.
5.	147965	7-11-1977	R C A CORPORATION of 80 Rockefeller Plaza, New York, N.Y. 10020 U.S.A.	A semi-conductor device.
6.	148031	30-5-1978	MASCHINENFABRIK REINHAU- SEN GEBRUDER SCHEUBECK GMBH. of 8, Falkensteinstrasse, 84 Regensburg, Federal Republic of Germany.	A top switch assembly for a topped transformer.
7.	148081	23-8-1977	MITSUBISHI DENKI KABUSHIKI KAISHA of 2-3, Marunouchi, 2-chome, chiyoda-ku Tokyo, Japan.	Fluid blast circuit breaker.
8.	148148	3-9-1977	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse Bldg. Gateway Center, Pittsburgh, Pennsylvania U.S.A.	Apparatus for applying an insulating coating on an elongated metallic member.
9.	148169	8-3-1978	MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK GmbH & Co. Kg. of 8 Falkensteinstrasse, 84, Regensburg F.R.G.	A tap switch attachment for a tapped transformer.
10.	148239	20-2-1978	FERRANTI LIMITED of Hollinwood, Lancashire, England.	Data processing systems.
13.	148272	19-6-1978	THE GENERAL ELECTRIC COMPANY LTD, of 1 Stanhope Gate, London W1A, 1EH, England.	Improvements in or relating to moving coil electrical indicating instruments.
12.	148328	28-2-1978	RCA CORPORATION of 30 Rocke- feller Plaza, New York, N.Y. 10020 U.S.A.	Semiconductor devices.
13.	148344	6-11-1975	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse Bldg. Gateway Center, Pittsburgh, Pennsylvania 15222 U.S.A.	Electrical devices.
14.	148396	27-9-1977	Do.	Electrical inductive apparatus.
15.	148473	28-3-1977	UNION CARBIDE CORPORATION of 270 Park a venue, New York, State of New York, 10017 U.S.A.	Galvanic cell having a resealable vent closure and method of making it.

1	2	3	4	5
16.	148488	13-5-1977	COMBUSTION ENGINEERING INC of 1000 Prospect Hill Road, Windsor connecticut. U.S.A.	An improved current control circuit for controlling the current applied to pulsed are welding system.
17.	148499	18-1-1978	SIEMENS AG. of Berlin & Munich, West Gormany.	Printed Circuit bog 1 d.
18.	158509	23-6-1978	ALLSOP AUTOMATIC INC. of 4201, Guide Meridian, Bellingham, Washington 980022, U.S.A.	A cleaner for a casette player.
19.	148531	13-5-1977	SIEMENS AKTIENGESELLSCHAFT of Berlin & Munich, Germany (West)	Brushless synchronous machine.
20.	148548	5-6-1978	Do.	Electrical connector.
21.	148642	16-3-19 <b>7</b> 8	FERRANTI LIMITED of Bridge house Park Road, Gately, Cheadle, Cheshire 4 Hz, England.	Data processing apparatus.
22,	148687	3-11-1977	SES, INCORPORATED, of one Tralec Industrial Park, New York Delaware 19711, U.S.A.	Photovoltaic cell array and method of making same.
23.	148845	23-9-1977	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway center. Pittsburgh, Pennsylvania, 15222, U.S.A.	Semiconductor switching devices.
24.	148868	6-6-1978	S.I.L.E.C. of 69 rue Ampero, 75017 Paris, France.	Industrially safe telephone network.
25.	148981	24-4-1978	USHIO DENKI KABUSHIKI KAISHA of 6-1, Otemachi, 2-chome Agahi-Tokai Bldg. 19th floor Chiyoda-ku, Tekyo, Japan.	Rare gas discharge lamp
26.	148982	24-4-1978	Do.	Discharge lamp.
27.	149052	31-7-1978	WABER AG FABRIK ELECTRO- TECHNISCHER ARTIKEL UND APPARATE. of Sedol strasse 2, 6020, Emmonbrucke Switzerland.	Automatic cut-out.
28.	149070	8-6-1977	MONOSOLAR INC. of 100 Wilshire Boulevard, Santa Monica California U.S.A.	Method of preparing a photo-voltaic power generating cell.
29.	149090	14-4-1978	MITSUBISHI DENKI KABUSHIKI KAISHA of 2-3 Marunouchi 2-chome, Chiyodaku, Tokyo, Japan.	Device for operating circuit breaker.
30.	149119	22-1-1979	WESTINGHOUSE ELECTRIC COR- PORATION of Westinghouse bldg. Gateway center, Pittsburgh, Pennsylva- nia, 15222, U.S.A.	Encapsulated instrument transformers and method of manufacturing same.
31.	149149	16-6-1978	Do.	A high voltage circuit interrupter.
32.	149188	16-10-1978	CHLORIDE INDIA LIMITED of Exide house, 59 B. Chowringhee Road, Calcutta-700020, West Bengal, India.	Improved dry charge process for drying formed negative electrode, plates suitable for use in storage batteries & electrode plates thus formed.
33.	149260	31-1-1979	BURROUGHS CORPORATION OF BURROUGHS PLACE of Burroughs place, Detroit Michigan 48232, U.S.A.	Full duplexe driver receiver.

1	2	3	4	5
34.	149272	27-10-1978	MANEKLAL SCIENTIFIC RESEARCH FOUNDATION, of A-1, Brighton No. 1, Rungta Lane, off Napeansea Road, Bombay-400 006. Maharashtra, India.	Apparatus for electroforming metal foil.
35.	149273	20-12-1977	WESTINGHOUSE ELECTRIC COR- PORATION of westing house bldg. Gateway center Pittsburgh, Pennsylvania, 15222 U.S.A.	Apparatus for protection against sub- synchronous currents in a power system.
36.	149274	20-12-1977	Do.	Apparatus for providing a signal responsive to subsynchronous current flowing in an electrical power system.
37.	149288	7-3-1979	KABELSCHLEPP GmbH of Marienborner strasse 75, 5900 Siegen 1, Federal Republic of Germany.	Improvement in supply line support ducting.
38.	149355	31-1-1978	TIDELAND SIGNAL CORPORATION At post office box-52430 Houston, Toxas 77052, U.S.A.	A self-regulating power system.
39.	149452	8-6-1978	THE BI-MODAL CORPORATION of 200 Railroad avenue, Greenwich, State of Connecticut, U.S.A.	Improvements in or relating to electric relay devices.
40.	149500	15-6-1977	NICHOLAS SYRED AND ETC. of Dept. of Mech. Engineering, University college P.O. Box 97 Cordiff Wales, United Kingdom.	Improvements in vortex diodes.
41.	149514	14-12-1978	RCA CORPORATION of 30 Rockefeller Plaza, 'New York' N.Y. 10020 U.S.A.	Improved passivating method for the production of an integrated circuit device.
42.	149533	7-5-1979	BURROUGHS CORPORATION of B irroughs place, Detroit, Michgan 48232, U.S.A.	Device for automatic modification of rom contents by a system selected variable.
43.	149558	14-7-1978	SIEMENS AG. of Berlin & munich Federal Republic of Germany.	Apparatus for bit error quota measurement in a digital transmission system.
44.	149575	28-2-1978	WESTING HOUSE ELECTRIC COR- PORATION of Westinghouse bidg. Gateway center Pittsburgh Pennsylvania 15222, U.S.A.	Vacuum switch system for electrolytic cells.
45.	149594	1-4-1978	INNOCENTE RIGANTI OFFICINE MECCANICHE S.p.A. of via Vittoria Voneto, 1, Solbiate, Arno, Italy.	A self gripping clamp with interchangeable liners.
46.	149647	7-2-1978	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway centre Pittsburgh Pennsylvania U.S.A.	Thyristors.
47.	149716	2-8-1979	BRAKES INDIA LIMITED At padi- Madras-6000-050, Tamil Nadu	Am electric switch for direct current circuits.
48.	149725	21-4-1979	SETSUO TOMITA of No. 1-2 Fukamizo-Ohzara Kohda- cho, Nukada-gun Aichiken, Japan.	Process for forming an anodised film over the surface of aluminium substrates.
49.	149830	25-7-1978	CHUGAIDENKIKOGYO KABU- CHIKI KAISHA, of 13/3, Nihonbashi- Kayabacho 2-Chome Chuo-Ku, Tokyo Japan	Apparatus for making a tri-metallic electrical contact.

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## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class. 1. No. 152663. Wajidsons Exports Ltd., 505, Kusal Bazar, 32-33, Nehru Place, New Delhi-110019 (India), a company incorporated under the Indian Companies Act, "Coffee Pot". 11th January, 1983.
- Class, 1. No. 152664. Wajidsons Exports Ltd., 505, Kusai Bazar, 32-33, Nehru Place, New Delhi-110019 (India), a company incorporated under the Indian Companies Act, "Coffee Pot". 11th January, 1983.
- Class. 1. No. 153647. Continental Instruments, 18|1020, Arya Samaj Road, Karol Bagh, New Delhi-110005, an Indian Partnership firm. "Lens Measure". 10th November, 1983.
- Class. 1. No. 154075. Carl Zitzmann Gmbh & Co., a company organised under the laws of Federal Republic of Germany of 14, Ernst-Abbe-Strasse, D-6980 Wertheim, Federal Republic of Germany. "Flask". 23rd February, 1984.
- Class. 1. No. 153942. Wormald International Limited, a Company incorporated under the laws of the State of New South Wales, Australia. "Sprinkler Head Housing". 6th January, 1984.
- Class. 1. No. 154128. Plato Industries (India), 18|23, Opp. Gali No. 4, New Rohtak Road, New Delhi-110005 an Indian Proprietor concern. "Mirror". /tn
- Class. 1. No. 153874. Speed & Power Instruments, 5644-Qutab Road, New Delhi-110055 an Indian Partnership concern. "Baby Study Desk". 15th December, 1983.
- Class. 1. No. 153894. Choosy Cheesy Private Ltd. U-202 Vikas Marg, Shakarpur, Delhi-110092, a company incorporated under the Indian Companies Act. "Washing Machine". 21st December, 1983.
- Class. 1. No. 153632. Pragji Mulji & Sons, an Indian Regd. Partnership firm having its office at: 15 Adarsh Indi. Estate, Chakla, Sahar Road Andheri-East, Bombay-400 093, Maharashtra. "A Trat". 8th November, 1983.

- Class. 1. No. 153752. Manik Metals & Trading Company Private Limited, an Indian Company having its Registered Office at: 122-124A, Jolly Maker Chambers No. 2 Nariman Point, Bombay-400 021 Maharashtra, India. "Sauce Pan". 5th December, 1983.
- Class. 3. No. 153637. Frederick and Geoffrey Industries, Frederick House, 3 YMCA Road, Bombay Central, Bombay-400 008, Maharashtra, India, a partnership firm. "Plastic Sun Visor". 8th November, 1983.
- Class. 3. No. 153326. D. S. Brothers, of 41/78, Punjabi Bagh, New Delhi-110006, (Indian National) a partnership concern. "Tricycle". 5th August, 1983.
- Class. 3. No. 153334, D. S. Brothers, of 41|78, Punjabi Bagn, New Delhi-110006, (Indian National) a partnership concern. "Tricycle". 5th August, 1983.
- Class. 3 No. 153699. Prabhat Industries, A 104/14, Wazirpur Industrial Arca, Delhi-110052 an Indian Partnership concern. "Jar". 23rd November, 1983.
- Class. 3. No. 153934. Celaciha Tools Private Limited, Gut No. 430, Plot 12, Gala C, Behind Dairy, Igatpuri-Agra Road, Talegaon, Igatpuri-422 403, Maharashtra State, a Private Limited Company incorporated under the Indian Companies Act. "Handle of Knife". 31st December, 1983.
- Class. 3. No. 154060. Dilip Coulagi Indian National of Plot No. 43 (South) Wadala, Bombay-400 031, State of Maharashtra, India. "Bottle". 20th February, 1984.
- Class. 3. No. 153554. Moideen Abdul Wahab Kamarudin.
  Proprietor, Olympic Cisterns, 16, 1st Main Road, Industrial Town, Rajajinagar, Bangalore-560 044, Karnataka, India, an Indian national. "Flushing Cisterns". 12th October, 1983.
- Class. 3. No. 153523. Pravin Kumar Padamchand Jain. 'Jin Kuti', Parwarpura, Itwari, Nagpur-440 002, Nationality-Indian. "Bottle". 3rd October, 1983.
- Class. 3. No. 153524. Pravin Kumar Padamchand Jain. 'Jin Kuti', Parwarpura, Itwari, Nagpur-440 002. Indian. "Bottle". 3rd October, 1983.

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SHANTI KUMAR Controller-General of Patents, Designs and Trade Marks